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In re:

Roy Hays

Appl. No.:

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February 13, 2001

Examiner:

Tran, Philip B.

For:

METHOD AND SYSTEM FOR COLLECTING INFORMATION AT

DISTRIBUTED LOCATIONS

DECLARATION OF BILLY W. HENSLEY AND ROY HAYS <u>UNDER 37 C.F.R. §§ 1.131</u>

We, Billy W. Hensley and Roy Hay, being joint inventors of the claimed subject matter, do hereby declare and say as follows:

- 1. We are the joint inventors of the inventions claimed in the original and pending claims of the above-captioned patent application.
- 2. We have read and understand the above-captioned patent application, including the original specification and claims. We also have read and understand the Office Action dated March 6, 2006 and active claims 1-13.
- 3. We have read and understand the following art applied in the Office Action: U.S. Patent No. 6,692,436 to Bluth et al. (hereinafter "Bluth") filed on April 14, 2000.
- 4. We hereby incorporate by reference the CD-R filed on October 27, 2005. We submit that the creation date of each file contained on the CD-R and relied upon for overcoming the outstanding rejections predates the April 14, 2000 filing date of Bluth.
- 5. We hereby incorporate the report attached to my Declaration of November 22,2004. The multiple entry dates subsequent to April 14, 2000 reflect dates on which files were

checked in or checked out from a database repository. Any modifications made to the files

subsequent to April 14, 2000 were not necessary for or part of the first actual reduction to

practice of the invention.

6. The software code set forth in the CD-R and existing prior to the April 14, 2000

filing date of Bluth constitutes an actual reduction to practice of the invention. We declare that

the software code worked for its intended purpose and performed each and every function of

claims 1-13.

7. We have attached a hardcopy print-out of the software code contained on the CD-

R, as requested by the Examiner. The code has been annotated and line numbers added to assist

the Examiner in identifying the relevant code for each claim feature. The top line of each page

of the hardcopy print-out includes a directory path, with the file name corresponding to the

"File(s)" set forth below in paragraphs 8-20. For example, for claim 1, phrase 1, the relevant

code may be found at the hardcopy print-out with the path "C:\Documents and

Settings\...\threadReceiver.cpp." at line 426 (on page 7 of the directory print-out).

With regard to claim 1, the following files existing prior to April 14, 2000 and 8.

submitted on the CD-R allowed claim 1 to be carried out prior to April 14, 2000:

providing user information for registered users, the user information comprising

medical information specific to the registered users;

Module: LCKioskServer.exe

File(s): threadReceiver.h; threadReceiver.cpp

Method(s): CExportKiosks::buildDailyExport;

CExportLCUsers::buildDailyExport

Line Nos.: 426 et seq.

2

<u>Comments</u>: User information is packed into files and placed in FTP directory for kiosk pickup

receiving updates to the user information;

Module: LCKioskClient.exe

File(s): wndMonitorISP.h; wndMonitorISP.cpp

Method(s): onExchange; exchangeFiles; pullFtpFiles

Line Nos.: 197 et seq., 681 et seq., 804 et seq.

Comments: Kiosks pick up data update files via FTP

generating update user information;

Module: LCKioskServer.exe

File(s): threadReceiver.h; threadReceiver.cpp

Method(s): CExportKiosks::buildDailyExport

CExportLCUsers::buildDailyExport

Line Nos.: 416 et seq.

Comments: Server generates files for kiosks containing user information.

The files are placed in a directory for pickup.

for each of the collection kiosks, receiving a request from the collection kiosk for the generated update user information;

Module: LCKioskClient.exe

File(s): threadReceiver.cpp; threadReceiver.h

Method(s): onTimerReceiveFiles

Line Nos.: 127 et seq.

Comments: All files are received via FTP. The LCKioskServer picks the

files up in the receiver directory and processes them all.

sending to the requesting collection kiosk the update user information

Module: LCKioskServer.exe

File(s): threadReceiver.cpp; threadReceiver.h

Method(s): CExportKiosks:buildDailyExport;

CExportLCUsers::buildDailyExport

Line Nos.: 416 et seq.

Comments: Data from the server is stored on the kiosk in a local database. Logins on the kiosks are authenticated against database.

storing the update user information at the requesting collection kiosk for subsequent requests,

Module: LCKioskClient.exe

File(s): wndMonitorISP.h; wndMonitorISP.cpp

Line Nos.: 265 et seq.

wherein the collection kiosks use the update user information to verify whether a user is registered.

Module: LCKioskClient.exe

File(s): wndMonitorISP.h; wndMonitorISP.cpp

Line Nos.: 265 et seq.

9 With regard to claim 2, the following files existing prior to April 14, 2000 allowed claim 2 to be carried out prior to April 14, 2000:

wherein the collection kiosks operate as FTP clients and the computer system operates as an FTP server

Module: LCKioskClient.exe

File(s): wndMonitorISP.h; wndMonitorISP.cpp

Method(s): exchangeFiles; pullFtpFiles

<u>Line Nos.</u>: 681 et seq., 804 et seq.

<u>Comments</u>: The server side FTP module is part of Windows operating system. The server generates files to be transferred and drops them into an FTP directory for kiosk pickup.

10. With regard to claim 3, the following files existing prior to April 14, 2000 allowed claim 3 to be carried out prior to April 14, 2000:

wherein the received update user information includes indications of whether to add a registered user, delete a registered user, or change information relating to a registered user

Module (server side): LCBroker.exe

<u>File(s)</u>: xc_applyKioskTrans.ccp

Method(s): applyUsers

Line Nos.: 93 et seq.

Comments: Determines if a user can be applied as a new user or must be

rejected, i.e., if user is already in system

Module (kiosk side): KCData.dll

File(s): CoKCData.h; CoKCdata.ccp

Method(s): getLCUser

Line Nos.: 184 et seq.

Comments: User's information has been updated with information from the server after data exchange. The user is in one of several statuses: a verified lifeclinic user, a candidate to become a lifeclinic user, or rejected by server.

11. With regard to claim 4, the following files existing prior to April 14, 2000 allowed claim 4 to be carried out prior to April 14, 2000:

wherein a collection kiosk sends a request for the generated update user information once a day

Module: LCKioskClient.exe

File(s): wndMonitorISP.h; wndMonitorISP.cpp

Method(s): onExchange; exchangeFiles; pullFtpFiles

Line Nos.: 197 et seq., 681 et seq., 804 et seq.

Comments: Kiosk pulls available updates

12. With regard to claim 5, the following files existing prior to April 14, 2000 allowed claim 5 to be carried out prior to April 14, 2000:

wherein the user information includes a user identifier and a password

Module: LCKioskClient.exe

File(s): wndMonitorISP.h; wndMonitorISP.cpp

Method(s): onExchange; exchangeFiles; exportData

Line Nos.: 197 et seq., 681 et seq., 898 et seq.

Module: KCData.dll

File(s): CoKCData.h; CoKCData.cpp

Method(s): getUnexportedData

Line Nos.: 396 et seq.

Comments: Data sent to the server contains requests to add new users,

with request including login and password.

With regard to claim 6, the following files existing prior to April 14, 2000 allowed claim 6 to be carried out prior to April 14, 2000:

providing user information for registered users, the user information comprising medical information specific to the registered users;

Module: KCData.dll

File(s): CoKCUser.h; CoKCUser.cpp

Method(s): get_LCUser

Line Nos.: 184 et seq.

sending a request for updated user information;

Module: KioskClient.exe

File(s): wndMonitorISP.h; wndMonitorISP.cpp

Method(s): onExchange; exchangeFiles

Line Nos.: 197 et seq., 681 et seq.

in response to sending the request, receiving the updated user information; and updating the provided user information for the registered user in accordance with the received updated user information so that the collection kiosk can verify whether a user of the collection kiosk is registered; and

Module: KioskClient.exe

File(s): wndMonitorISP.h; wndMonitorISP.cpp

<u>Method(s)</u>: onExchange; exchangeFiles; pullFtpFiles

Line Nos.: 197 et seq., 681 et seq., 804 et seq.

Module: KCData.dll

File(s): CoKCData.h; CoKCData.cpp

Method(s): importLCUsers; getLCUser

Line Nos.: 627 et seq., 184 et seq.

Comments: local user information updated with information from server

via importLCUsers after data exchange.

storing the updated user information at the collection kiosk for subsequent requests

Module: LCKioskClient.exe

File(s): wndMonitorISP.h; wndMonitorISP.cpp

Line Nos.: 265 et seq.

14. With regard to claim 7, the following files existing prior to April 14, 2000 supported claim 7 prior to April 14, 2000:

a central computer system for a web site, the central computer system providing a repository for the information, registering users of the web site, and accessing the information; and

Module: LCKioskClient.exe

File(s): wndMonitorISP.h; wndMonitorISP.cpp

Line Nos.: 265 et seq.

<u>Comments</u>: The central computer is comprised of IIS, MS SQL, FTP,

LCKioskServer, and LLCBroker.

Web Directories/Files:

- i. \Member\Admin\Kiosk
 - KioskCheck.asp; KioskSave.asp
- ii. \Member\Admin\KioskAds
 - dataAdmin.asp; default.asp; distlist.asp; distlog.asp
 distnew.asp; distsave.asp
- iii. \Member\BloodPressure
 - BloodPressure.asp; BloodPressure_4_2.asp; LoadBP.asp; LoadBP_4_2.asp; SaveBP.asp; SaveBP_4_2.asp
- iv. \Member\Charts
 - Chart.asp; EmailtoPhysician.asp; NormalBPRanges.asp;
 NormalCholesterolRAnges.asp; Review.asp;
 vitalchart.asp; NormalGlucoseRanges.asp
- v. \Member\Login
 - index.asp; Login.asp; loginError.asp; verifyUser.asp
- vi. \Member\MemberInfo
 - familyMember.asp; getSexCode.asp; LoadDependent.asp; loadMemberInfo.asp; MemberInfo.asp; MemberInfo.asp; MemberInfo_new.asp; SaveDependent.asp; saveMemberInfo_3_15.asp
- vii. \Member\NewUser
 - agreement.asp; agrmdecline.asp; Newuser.asp; Newuser_form2.asp; Welcome.asp

viii. \Member\Preferences

- ChangePassword.asp; emailUpdatePreference.asp;
LoadUserPreference.asp; mainPagePreference.asp;
newsPreference.asp; password.asp; Preferences.asp;
SaveEmailUpdate.asp; SaveMainPagePreference.asp;
SaveNewsPreference.asp; SavePreference.asp

ix. \Member\Pulse

LoadPulse.asp; LoadPulse_4_2.asp; Pulse.asp
 Pulse_4_2.asp; SavePulse.asp; SavePulse_4_2.asp

x. \Member\Weight

- LoadWeight.asp; LoadWeight_4_2.asp; SaveWeight.asp; SaveWeight_4_2.asp; Weight.asp; Weight 4 2.asp

a plurality of collection kiosks for collecting information about users, for verifying whether a user is registered at the web site, and for sending the collected information to the central computer system when the user is registered.

Module: KioskClient.exe

File(s): wndMonitorISP.h; wndMonitorISP.cpp

Method(s): onExchange; exchangeFiles; pullFtpFiles

Line Nos.: 197 et seq., 681 et seq., 804 et seq.

Comments: Kiosks maintain local copy of centralized data

Module: KCData.dll

File(s): CoKCData.h; CoKCData.cpp

Method(s): getLCUser

Line Nos.: 184 et seq.

Comments: authenticates user against local database

15. With regard to claim 8, the following files existing prior to April 14, 2000 allowed claim 8 to be carried out prior to April 14, 2000:

wherein the information is medical information.

Module: KCData.DLL

File(s): CoBPReading.h; CoBPReading.cpp;

Line Nos.: 104 et seq.,

Module: KCData.DLL

File(s): CoWeightReading.h; CoWeightReading.cpp;

Line Nos.: 78 et seq.

16. With regard to claim 9, the following files existing prior to April 14, 2000 allowed claim 9 to be carried out prior to April 14, 2000:

registering the users at the web site when information about a user is collected at one of a plurality of collection kiosks,

Module: LCKioskServer.exe

File(s): threadReceiver.cpp; threadReceiver.h

Method(s): onTimerReceiveFiles

Line Nos.: 127 et seq.

Comments: all files received via FTP; LCKioskServer picks files up

in the receive directory and processes through

LCBroker.exe

Module: LCBroker.exe

File(s): xc_applyKioskTrans.cpp

Method(s): applyUsers

Line Nos.: 93 et seq.

determining whether the user is registered at the website; and when registered, sending the collected information to a computer system so that the collected information is accessible to the user through the web site.

Module: KCData.dll

File(s): CoKCUser.h; CoKCUser.cpp

Method(s): get_LCUser

Line Nos.: 227 et seq.

Module: KioskClient.exe

File(s): wndMonitorISP.h; wndMonitorISP.cpp

Method(s): onExchange; exchangeFiles

Line Nos.: 197 et seq., 681 et seq.

Comments: Each kiosk authenticates users against local database during login. User statuses are verified user, candidate, and rejected.

Non-users and rejected users become candidate and registration is scheduled to occur via subsequent data exchange with server.

17. With regard to claim 10, the following files existing prior to April 14, 2000 allowed claim 10 to be carried out prior to April 14, 2000:

wherein a collection kiosk automatically sends a request for the generated update user information periodically.

Module: LCKioskClient.exe

File(s): wndMonitorISP.h; wndMonitorISP.cpp

Line Nos.: 197 et seq.

18. With regard to claim 11, the following files existing prior to April 14, 2000 allowed claim 11 to be carried out prior to April 14, 2000:

wherein said sending a request for updated information is automatic and performed periodically.

Module: LCKioskClient.exe

File(s): wndMonitorISP.h; wndMonitorISP.cpp

Line Nos.: 235 et seq.

19. With regard to claim 12, the following files existing prior to April 14, 2000 allowed claim 12 to be carried out prior to April 14, 2000:

wherein said sending a request for updated information is automatic and performed daily

Module: LCKioskClient.exe

File(s): wndMonitorISP.h; wndMonitorISP.cpp

Line Nos.: 123 et seq.

20. With regard to claim 13, the following files existing prior to April 14, 2000 allowed claim 13 to be carried out prior to April 14, 2000:

the information comprising medical information specific to the registered users;

Module: LCKioskClient.exe

File(s): wndMonitorISP.h; wndMonitorISP.cpp

Line Nos.: 681 et seq.

the central computer system further is for receiving updates to the user information from the collection kiosks, generating update user information, and for each of the collection kiosks, receiving a request from the collection kiosk for the generated update user information and sending to the requesting collection kiosk the update user information.

Module: LCKioskClient.exe

File(s): wndMonitorISP.h; wndMonitorISP.cpp

Line Nos.: 681 et seq.

21. We hereby declare that all statements made herein of our knowledge are true and all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the above-captioned patent application or any patent issued thereon.

Billy W. Hensley	Date
Roy Hays	<u>25 Oct 20</u> 06 Date

```
c:\Documents and Settings\Billy\My ...\Patents\LCServices\KCData\CoKCUser.cpp
```

```
1 // Cokcuser.cop : Implementation of Ckcuser
 2 #include "stdafx.h"
 3 %include "KCData.h"
 4 #include "CoKCUser.h"
 5 Windrede "CoRCData.h"
 6 #include "CoBPReading.h"
 7 #include "CoWeightReading.h"
 8 #include "rs_kcdata.h"
11 // CKCUser
12
13 HRESULT CKCUser::FinalConstruct()
14 (
15
       m pobjOwner = NULL;
       m_prs50 = NULL;
15
17
       m prsWeight = NCLL;
18
19
       m_vKioskUserID.vt = VT_NULL;
      m_vFirstName.vt. = VT_NULL;
20
21
       m vLastName.vt = VT NULL;
      m_vMiddleName.vt = VT_NULL;
22
      m vAddressl.vt = VT NULL;
2.3
      m vAddress2.vt = VT NULL;
24
       m_vCity.vt = VT_NULL;
25
      m_vstato.vt - VT_NULL;
26
       m vZip.vt = VT NULL;
27
      m_vPhone.vt = VT_NULL;
m_vPassword.vt = VT_NULL;
28
29
      m_vEMail.vt = VT_NULL;
m_vLCPassword.vr = VT_NULL;
30
31
      m_vLCUsec.vt = VT NULL;
32
33
       m vUserStatus.vt = VT NULL;
34
35
       zelata S OK;
36 }
37
38 word CKCUser::FinalRelease()
39 (
       if (m_prs8P := NULL)
40
41
           delete m prsBP;
42
43
       if (m prsWeight != NULL)
4.4
           uelete m_prsWeight;
45
46
       if (m_pobjOwner != NULL)
           m_pobjOwner->Release();
47
48
49
       the East 19 1
50 }
51
52 STDMETHODIMP CROUSET::InterfaceSupportsBrrowInfo(REFIID riid)
53 {
       static const IID* arr[] =
54
55
           SIID IKCUser
56
57
       1 :
       for (.nt i=0; i < .::cof(arr) / sizeof(arr[0]); i++)</pre>
58
59
ģΰ
           if (InlineTsEqualGUTD(*arr(i), riid))
               return S_OK;
51
62
63
       reforr S_FALSE;
64 }
5.5
66 STEMETHODIMP CKCUser::get KioskUserID(VARIANT *pVal)
```

```
67 {
       *pVal = m_vKioskUserID;
68
       return S_OK;
69
70 }
72 STDMETHODIMP CKCUser::get_FirstName(VARIANT * pVal)
73 {
74
       VariantInit(pVal);
       *pVal = _variant_t(m_vFirstName).Detach();
75
       return S_OK;
75
77 }
78
79 STDMETHODIMP CKCUser::put_FirstName(VARIANT newVal)
80 (
       m vFirstName = newVal;
81
82
       resurn S_OK;
83 }
34
85 STDMETHODIMP CKCUser::get_LastName(VARIANT *pVal)
86 (
       VariantInit(pVal);
87
       *pVal = _variant_t(m_vLastName).Detach();
88
       return S_OK:
9.9
90 ]
91
92 STDMETHODIMP CKCUser::put_LastName(VARIANT newVal)
93 [
       m vLastName = newVal;
94
       return S_OK;
95
96 }
97
98 STDMETHODIMP CKCUser::get_MiddleName(VARIANT *pVal)
99 (
        variantInit(pval);
100
        'pVal = _variant_t(m_vMiddleName).Detach();
101
        return S_OK;
102
103 }
104
105 STOMETHODIMP CKCUser::put_MiddleName(VARIANT newVal)
106 (
        m vMiddleName = newVal;
107
        return S_OK;
108
109 }
110
111 STDMETHODIMP CKCUser::get_Address1(VARIANT *pVal)
112 (
        VariantInit (pVal);
113
        *pVal = _variant_t (m_vAddress1) .Detach();
114
        return S_OK;
115
116 }
117
118 STDMETHODIMP CKCUser::put_Address1(VARIANT newVal)
119 (
        m vAddress1 = newVal;
120
        return S_OK;
121
122 }
123
124 STDMETHODIMP CKCUser::get_Address2(VARIANT *pVal)
125
        variantInit(pVal);
126
        *pVal = _variant_t(m_vAddress2).Detach();
127
        return S_OK:
1,28
129 }
130
131 STDMETHODIMP CKCUser::put_Address2(VARIANT newVal)
132 {
```

```
c:\Documents and Settings\Billy\My ...\Patents\LCServices\KCData\CoKCUser.cpp
```

```
133
         m_vAddress2 = newVal;
1.34
         raturn S_OK;
135 }
136
137 STDMETHODIMF CKCUser::get_City(VARIANT *pVal)
138 (
139
         VariantInit (pVal);
140
         *pVal = _variant_t(m_vCity).Detach();
        return S_OK;
141
142 }
143
144 STDMETHODIMF CKCUser::put_City(VARIANT newVal)
145 (
146
        m vCity = newVal;
14?
        return S_OK;
148 }
1.49
150 STDMETHODIMP CKCUser::get_State(VARIANT *pVal)
151 {
152
        VariantInit(pVal);
153
         *pVal = _variant_t(m_vState).Detach();
154
        return STOK;
155 }
156
157 STDMETHODIMP CKCUser::put_State(VARIANT newVal)
158 (
159
        m vState = newVal:
160
        recurn S_OK;
161 }
152
163 STDMETHODIMP CKCUser::get_Zip(VARIANT *pVal)
164 (
165
        VariantInit(pVal);
166
        *pVal = _variant_t(m_vZip).Detach();
167
        return S OK;
168 )
169
170 STDMETHODIMP CKCUser::put_Zip(VARIANT newVal)
171 (
172
        m_vZip = newVal;
173
        return S_0%;
174 }
175
176 STDMETHODIMP CKCUser::get_Phone(VARIANT *pVal)
177 {
178
        VariantInit(pVal);
        *pVal = _variant_t (m_vPhone) . Detach ();
return S_OK; -
179
180
101 }
182
183 STEMETHODIMP CKCUser::put_Phone(VARIANT newVal)
184 (
185
        m vPhone = newVal;
18.6
        return S_OK;
187 )
188
189 STDMETHODIMP CKCUser::get_Password(VARIANT *pVal)
190 |
191
        VariantInit(pVal);
192
        *pVal = _variant_t(m_vPassword).Detach();
193
        return S OK;
194 }
195
196 STDMETHODIMF CKCUser::put_Password(VARIANT newVal)
197 (
198
        m vPassword = newVal;
```

```
c:\Documents and Settings\Billy\My ...\Patents\LCServices\KCData\CoKCUser.cpp
 199
          tetuin S_OK;
 200 }
 201
 202 STDMETHODIMP CKCUser::get_EMail(VARIANT *pVal)
 203 (
 204
          VariantInit(pVal);
 205
          *pVal = _variant_t(m_vEMail).Detach();
 206
          return S_OK;
 207 ]
 208
 209 STDMETHODIMP CKCUser::put_EMail(VARIANT newVal)
 210 (
 211
          m_vEMail = newVal;
 212
         return S_OK;
 213 }
 214
 215 STDMETHODIMP CKCUser::put_LCPassword(VARIANT newVal)
 216 (
217
         m_vLCPassword = newVal;
218
         return S_OE;
219 }
220
221 STDMETHODIMP CKCUser::put_LCUser(VARIANT newVal)
222. (
223
         m_vLCUser = newVal;
224
         return S_OK;
225 }
226
227 STDMETHODIMP CKCUser::get_LCUser(VARIANT *pVal)
228 {
229
         VariancInit(pVal);
230
         *pVal = _variant_t(m_vLCUser).Detach();
return S_OK;
231
232 }
233
234 STDMETHODIMP CKCUser::get_UserStatus(VARIANT *pVal)
235 {
236
         VariantInit(pVal);
237
         *pVal = _variant_t(m_vUserStatus).Detach();
         return S_OK;
238
239 }
240
241 STDMETHODIMP CKCUser::put_UserStatus(VARIANT newVal)
242 [
243
         m_vUserStatus = newVal;
244.
         return S_OK;
245 ]
246
247 STDMETHODIMP CKCUser::update()
246 (
249
         Crs kcuser rs;
250
         string strError;
251
         HRESULT hr = S_OK;
252
        rs.setActiveCommand("uptUser");
253
254
        rs.setParameter("kiosk_user_id", m_vKioskUserID);
255
        rs.setParameter("first_name", m_vFirstName);
        rs.setParameter("last_name", m_vLastName);
rs.setParameter("middle_name", m_vMiddleName);
256
257
        rs.setParameter("address1", m_vAddress1);
rs.setParameter("address2", m_vAddress2);
258
259
        rs.setParameter("city", m_vCity);
rs.setParameter("state", m_vState);
260
251
262
        rs.setParameter("zip", m vZip);
263
        rs.setParameter("email", m vEMail);
```

264

rs.setParameter("phone", m_vPhone);

```
265
          rs.setParameter("password", m_vPassword);
          rs.setParameter("user_status", m_vdserStatus);
 266
 267
 268
          if (!m_pobjOwner->m_pconn->execute(rs))
269
 270
               m_pobjOwner->m_pconn->getLastError(strError);
 271
               Error(strError.c_str(), IID_IKCUser, hr = E_FAIL);
 272
          į
273
 274
          return hr;
275 }
276
277 STUMETHODIME CKCUSer::addbekeading(VARIANT vSystolicBe, VARIANT vDiastolicBe, VARIANT &
          vPulse)
278 (
279
          HRESULT hr = S_OK;
280
281
          try
282
          (
283
              SYSTEMTIME tm;
284
              GetLocalTime(&tm);
285
              DATE dateNow;
296
              SystemTimeToVariantTime(&tm, &dateNow);
287
288
              Crs_blood_pressure
                                            rs;
289
290
              rs.setActiveCommand("insNewReading");
             rs.setParameter("kiosk_id", _variant_t(m_pobjOwner->m_lKioskId));
rs.setParameter("kiosk_user_id", m_vKioskUserID);
rs.setParameter("reading_dt", _variant_t(dateNow));
rs.setParameter("systolic_bp", _variant_t(vSystolicBP));
rs.setParameter("diastolic_bp", _variant_t(vDiastolicBP));
291
292
293
294
295
296
              rs_setParameter("pulse", _wariant_t(wPulse));
297
298
              if (!m pobjOwner->m pconn->execute(rs))
299
              ĺ
300.
                   string strError;
301
                   m_pobjOwner->m_pconn->getLastError(strError);
302
                   Error(strError.c_str(), IID_IKCData, E_FAIL);
303
                   throw E_FAIL;
304
305
306
              removeOldReadings(rs);
307
308
         catch ( com error & e)
309
310
              Error((BSTR) e.Description(), IID_IKCUser, hr = e.Error());
311
312
         catch (HRESULT hrError)
313
314
              hr = hrError;
315
         catch(...)
316
317
318
              hr = E_FAIL;
319
320
321
         return hr;
322
323
324 STDMETHODIMP CKCUser::addWeightReading(VARIANT vWeight)
325 (
326
         HRESULT hr = S_OK;
327
328
         try
329
         {
```

```
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```

```
330
               SYSTEMTIME tm;
331
               GetLocalTime(&tm);
332
               DATE dateNow;
333
               SystemTimeToVariantTime(&tm, &dateNow);
334
335
               Crs_weight
                                    rs;
336
337
               rs.setActiveCommand("insNewReading");
               rs.setParameter("kiosk id", variant t(m_pobjOwner->m_lKioskId));
rs.setParameter("kiosk_user_id", m_vKioskUserID);
rs.setParameter("reading_dt", variant_t(dateNow));
rs.setParameter("weight", variant_t(vWeight));
338
339
340
341
342
343
               it (!m_pobjOwner->m_pconn->execute(rs))
344
345
                    string strError;
                    m_pobjOwner->m_pconn->getLastError(strError);
346
347
                    Error(strError.c_str(), IID_IRCData, E_FAIL);
348
                    throw E_FAIL;
349
               ì
350
351
               removeOldReadings(rs);
352
353
          carch ( com error & é)
354
355
               Error((BSTR) e.Description(), IID_IKCUser, hr = e.Error());
356
353
          datch (MRESULT brError)
358
359
               hr = hrError;
360
          1
361
          catch(...)
362
363
               hr = E FAIL;
364
3€5
366
          return hr;
367 ]
368
369
370 STDMETHODIMP CKCUser::addAlternateID(VARIANT vID, VARIANT vIdType)
3/1 1
372
          HRESULT hr = S OK;
373
374
          try
375
376
               Crs_alternate_id
377
378
               rs.setActiveCommand("insNewId");
379
               rs.setParameter("kiosk_id", _variant_t(m_pobjOwner->m_lKioskId));
              rs.setParameter("alternate_id", _variant_t(vID));
rs.setParameter("kiosk_user_id", m_vKioskUserID);
if (vIdType.vt == VT_EMPTY || vIdType.vt == VT_NULL)
    rs.setParameter("id_type", _variant_t(2L));
380
301
382
383
384
              else
385
                    rs.setParameter("id_type", _variant_t(vIdType));
3.8.6
387
               if (!m_pobjOwner->m_pconn->execute(rs))
388
389
                    string strError;
390
                    m pobjOwner->m pconn->getLastError(strError);
391
                    Error(strError_c_str(), LLD_LKCData, E_EALL);
392
                    throw E_FAIL;
393
               }
394
395
          }
```

```
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```

```
396
        catch (_com_error & e)
397
            Error((BSTR) e.Description(), IID_IKCUser, hr = e.Error());
398
399
400
        catch (NKESULT hrError)
401
            hr = hrError;
402
403
        }
404
        catch(...)
405
        4
            hr = E_FAIL;
406
407
408
409
        return hr;
410 }
411
412 STDMETHODINP CKCUser::getFirstBP(VARIANT *pBPReading)
413 {
        HRESULT hr = S_OK;
414
415
416
        try
417
        (
            if (m_prs&F != NULL)
418
                delete m prsBP;
419
420
            m_prsBP = new Crs_blood_pressure;
421
            m prsBP->setActiveCommand("getReadings");
422
            m prsBP->setParameter("kinsk_user_id", m_ukinskllserLD);
4.2.3
424
425
            if (!m_pobjOwner->m_pconn->execute(*m_prsBP))
426
427
                string strError;
                m pobjOwner->m pconn->getLastError(strError);
428
                Error(strError.c_str(), IID_IKCUser, hr = E_FAIL);
429
430
                throw E_FAIL;
431
432
433
            hr = getNextBP(pBPReading);
434
435
        catch(_com_error & e)
436
            Error((BSTR) e.Description(), IID IKCUser, hr = e.Error());
437
438
        catch (HRESULT hrError)
439
440
            hr = hrError;
441
442
        }
443
        catch(...)
444
        {
445
            hr = E_FAIL;
446
447
448
        cetern hr;
449 }
450
451 STDMETHODIMP CKCUser::getNextBP(VARIANT *pvBPReading)
452 {
        HRESULT hr = S OK;
453
454
        VariantClear (pvBPReading):
        CComObject<CBPReading> * pobjBP = NULL;
455
        _variant_t vVal((IDispatch *) NULL, false);
456
457
458
        try
459
            if (m_prsBP == NULL)
460
461
```

```
c:\Documents and Settings\Billy\My ...\Patents\LCServices\KCData\CoKCUser.cpp
 462
                 Error("CKCUser::getFirstBP() must be called first", IID_IKCUser, E_FAIL);
 4.6.3
                 throw E EALL;
 464
             ł
 465
 466
             if (!m_prs&P->isECF())
 467
                 if (FAILED(hr = CComObject<CBPReading>::CreateInstance(&pobjBP)))
 468
 469
                 Į
470
                     stringstream strmError;
471
                     strmError << "CComObject<CBPReading>::CreateInstance() failed. Error =
         [0x";
472
                     strmError << std::hex << hr << "]";
473
                     Error(strmError.str().c_str(), IID_IKCUser, hr);
474
                     throw hr;
475
476
47?
                 pobjBP->load(*m_prsBP);
473
                 m_prsBP->moveWext();
479
480
                'IDispatch * pIDispatch;
481
                if (FAILED(hr = pobjBP->QueryInterface(IID_IDispatch, (void **) &
        pIDispatch)))
482
483
                     stringstream strmError;
484
                     strmError << "QueryInterface(IDispatch) failed. Error = [0x";</pre>
485
                     strmError << std::hex << hr << "]";
486
                     Error(strmError.str().c_str(), IID_IKCUser, hr);
427
                     pobjBP->Release();
488
                     throw hr;
489
490
491
                vVal.pdispVal = pIDispatch;
492
493
494
        catch(_com_error & e)
495
496
            Error((BSTR) e.Description(), IID_IKCUser, hr = e.Error());
497
498
        catch (HRESULT hrError)
499
500
            hr = hrError:
501
502
        catch(...)
503
504
            hr = E_FAIL;
505
506
507
        if (SUCCEEDED(hr))
508
            *pvbPReading = vVal.Detach();
509
510
        return hr;
511 ]
512
513 STOMETHODIMP CKCDser::getFirstWeight(VARIANT + pvWeight)
514 (
       HRESULT hr = S_OK;
515
516
517
       try
518
519
            if (m_prsWeight != NULL)
520
                delete m prsWeight;
521
522
           m_prsWeight = new Crs weight;
523
           m prsWeight->setActiveCommand("getReadings");
           m prsWeight->setParameter("kiosk_user_id", m_vKioskUserID);
524
525
```

```
c:\Documents and Settings\Billy\My ...\Patents\LCServices\KCData\CoKCUser.cpp
 526
             it (!m_pobjOwner->m_pconn->execute(*m_prsWeight))
 527
             ĺ
 528
                 string strError;
 529
                 m_pobjOwner->m_pconn->getLastError(strError);
 530
                 Error(strError.c_str(), IID_INCOser, hr = E_FAIL);
531
                 throw E_FAIL;
532
             }
 533
534
             hr = getNextWeight(pvWeight);
535
536
         catch ( com error & e)
537
             Error((BSTR) e.Description(), HD_IKCUser, hr = e.Error());
538
539
540
         Latch (HRESULT hrError)
541
542
            hr = hrError;
543
544
        cotch(...)
545
         1
546
            hr = E FAIL;
547
5.48
549
        return hr:
550 }
551
552 STEMETHODIMP CKCUser::getNextWeight(VARIANT *pvWeight)
553 {
554
        HRESULT hr = S OK;
555
        VariantClear(pvWeight);
556
        CComObject<CWeightReading> * pobjWeight = NULL;
557
        _variant_t vVal((IDispatch *) NULL, false);
558
559
        try
560
        í
361
            if (m prsWeight == NULL)
562
563
                Error("CKCUser::getFirstWeight() must be called first", IID_IKCUser,
        E_FAIL);
564
                throw E_FAIL;
5.65
            ż
566
567
            if (!m_prsWeight->isEOF())
568
569
                if (FAILED(hr = CComObject<CWeightReading>::CreateInstance(&pobjWeight)))
570
571
                     stringstream strmError;
572
                    strmError << "CComObject<CWeightReading>::CreateInstance() failed.
        Error - [0x";
573
                     strmError << std::hex << hr << "]";
574
                    Error(strmError.str().c_str(), IID_IKCUser, hr);
575
                     throw hr;
576
577
578
                pobjWeight->load(*m_prsWeight);
579
                m_prsWeight->moveNext();
580
581
                IDispatch * pIDispatch;
5.8.2
                if (FAILED(hr = pobjWeight->QueryInterface(IID_IDispatch, (void **) &
        pIDispatch)))
583
564
                    stringstream strmError;
                    strmError << "QueryInterface(IDispatch) failed. Error = [0x";
585
58€
                    strmError << std::hex << hr << "]";
587
                    Error(strmError.str().c_str(), IID_IKCUser, hr);
588
                    pobjWeight->Release();
```

```
589
                     throw hr;
590
591
                 vVal.pdispVal = pIDispatch;
592
593
594
        catch(_com_error & e)
595
596
            Error((BSTR) e.Description(), IID_IKCUser, hr = e.Error());
597
598
599
        catch (HRESULT hrError)
600
            hr = hrError;
601
602
        catch(...)
603
604
        {
605
            hr = E FAIL;
୧୯୧
607
        if (SUCCEEDED(hr))
608
609
             *pvWeight = vVal.Detach();
610
        return hr;
611
612 )
613
614 STDMETHODIMP CKCUser::validatePassword(VARIANT vPassword, VARIANT vPWordType, VARIANT r
        *pvfValid)
615 {
616
        HRESULT hr = 5 OK;
        VariantInit(pvfValid);
617
61.8
619
        try
620
        {
            pvfValid->vt = VT_BOOL;
621
            pvfValid -> bVal = \overline{0};
622
623
             long lPWordType;
624
             if (vPWordType.vt == VT_EMPTY || vPWordType.vt == VT_NULL) .
625
                 lPWordType = 1;
62.6
627
             else
                 lPWordType = (long) _variant_t(vPWordType);
628
629
             if (lPWordType != 1 && lPWordType != 2)
630
631
             {
                 Error("Invalid PasswordType.", IID_IKCUser, E_INVALIDARG);
632
633
                 hr = E_INVALIDARG;
634
635
             else
636
                 _bstr_t bstrPWordIn(vPassword);
_bstr_t bstrPWord;
637
638
                 If (lPWordType == 1)
€39
                     bstrPWord = m_vLCPassword;
640
641
                 else
                     bstrPWord = m_vPassword;
642
643
                 string strBPWordIn;
644
                 string strPWord;
645
646
                 if (bstrPWordIn.length())
647
                      strBPWordIn = (char *) bstrPWordIn;
648
649
650
                 if (bstrPWord.length())
                      strPWord = (char *) bstrPWord;
651
652
                 TOUPPER (strBPWordIn);
653
```

```
654
                TOUPPER(strPWord);
 655
 656
                if (strBPWordIn.compare(strPWord) == 0)
657
                    pvfValid->boolVal = -1;
 658
659
                    pvfValid->boolVal = 0;
660
661
662
        catch(_com_error & e)
563
664
            Error((BSTR) e.Description(), IID_IKCUser, hr = e.Error());
665
        }
666
        catch(...)
667
        (
668
            Error ("Unknown exception", IID_IKCUser, hr = E_FAIL);
669
670
671
        return hr;
672 }
673
675 // internal C++ interface
676
677 bool CKCUser::load(CSdoRecordset & rs)
678 (
679
        m_vKioskOserID = rs.getField("kiosk user id");
       m_vFirstName = rs.getField("first_name");
680
681
       m_vLastName = rs.getField("last name");
682
       m_vMiddleName = rs.getField("middle name");
683
       m_vAddress1 = rs.getField("address1");
       m_vAddress2 = rs.getField("address2");
684
685
       m_vCity = rs.getField("city");
686
       m_vState = rs.getField("state");
687
       m_vZip = rs.getField("zip");
688
       m_vPhone = rs.getField("phone");
689
       m vPassword = rs.getEield("password");
690
       m_vUserStatus = rs.getField("user_status");
691
692
       return true;
693 }
694
695 void CKCUser::setOwner(CKCData * pobjOwner)
696 (
€97
       m_pobjOwner = pobjOwner;
698
       m_pobjOwner->AddRef();
699
       return;
700 }
701
702 void CKCUser::removeOldReadings(CSdoRecordset & rs)
703 (
704
        variant_t vLastReading;
705
       int mNumber = 0;
706
       string strError:
707
708
       rs.setActiveCommand("getReadings");
709
       rs.setParameter("kiosk_user_id", m_vKioskUserID);
710
       if (!m_pobjOwner->m_pconn->execute(rs))
711
712
           m_pobjOwner->m_pconn->getLastError(strError);
713
           Error(strError.c_str(), IID_IKCData, E_FAIL);
714
           throw E_FAIL;
715
716
717
       while (!rs.isEOF())
718
719
           nNumber++;
```

```
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720
             if (nNumber >= m_pobjOwner->m_lReadingsToKeep)
721
722
                 vLastReading = rs.getField("reading_dt");
723
                 break;
724
725
             rs.moveNext(); -
726
727
728
        rs.close();
729
730
        if (vLastReading.vt != VT_EMPTY)
731
            rs.setActiveCommand("removeOld");
rs.setParameter("reading_dt", vLastReading);
732
733
            if (!m_pobj@wmer->m_pconm->execute(rs))
734
735
736
                 m_pobjOwner->m_pconn->getLastError(strError);
737
                 Error(strError.c_str(), IID_IKCData, E_FAIL);
738
                 throw E_FAIL;
739
            }
740
741
742
        return;
```

743 } 744 /45

```
1 // CoBPReading.cpp : Implementation of CBPReading
2 #include "stdafx.h"
3 #include "KCData.h"
 4 #include "CobPhading.h"
5 Hinclude "rs kodata.h"
8 // CBPReading
10 STDMETHODIMP CBPReading::InterfaceSupportsErrorInfo(REFIID riid)
11 (
12
      static const IID* arr[] =
13
          ATTO IMPRescing
14
15
      for (int i=0: i < sizeof(arr) / sizeof(arr(0)): i++)
16
17
18
          if (InlineIsEqualGUID(*arr[i], riid))
19
               return 3_OK;
20
21
       return S_FALSE;
22 1
23
24 HRESULT CBPReading::FinalConstruct()
25 {
      m vPulse.vt = VT NULL;
26
      m_vDiastolicBP.vt = VT NULL;
27
28
      m vSystolicBP.vt = VT NULL;
      m_vReadingDt.vt = VT \overline{NULL};
29
      m_vKioskUsertU.vr = VI_NULL;
30
31.
       return S_OK;
32 1
33
34 void CBPReading::FinalRelease()
35 (
36 }
37
38 STEMETHODIMP CBPReading::get_KioskUserID(VARIANT *pVal)
39 €
        variant_t wVal(*pVal, false);
40
       vVal = m vKioskUserID;
41
       *pVal = vVal.Detach(): .
42
4.3
       return S OKJ
44 }
45
46 STOMETHODIMP CBPReading::get_ReadingDate(VARIANT *pVal)
47 (
        variant_t vVal(*pVal, false); ;
48
       vVal = m vReadingDt;
49
       *pVal = vVal.Detach();
50
51
       return S_CM;
52 }
53
54 STDMETHODIMP CBPReading::put_ReadingDate(VARIANT newVal)
55 (
56
       m vReadingDt = newVal;
       return S_OK;
5.7
58 }
59
60 STDMETHODIMP CBPReading::get_SystolicBP(VARIANT *pVal)
61 {
        variant_t vVal(*pVal, false);
62
       \overline{v}Val = m\overline{v}systolicRP;
63
       *pvsl = "vsl.Detsch();
64.
65
       return 5_OK;
56 }
```

```
c:\Documents and Settings\Billy\My ...Patents\LCServices\KCData\CoBPReading.cpp
```

```
67
 68 STUMETHODIMP CBPReading::put_SystolicBP(VARIANT newVal)
 69 (
 70
       m_vSystolicBP = newVal;
 71
       return S_OK;
 72 }
 73
 74 STDMETHODIMP CBPReading::get_DiastolicBP(VARIANT *pVal)
 75 (
 76
        variant t vVal(*pVal, false);
 77
       vVal - m_vDiastolicBP;
 78
       *pVal = vVal.Detach();
 79
       return S OK;
 60 ;
 81
 82 STDMETHODIMP CBPReading::put_DiastolicBP(VARIANT newVal)
83 {
8.4
       m vDiastolicBP = newVal;
85
       return S_OK:
86 }
87
88 STUMETHODIMF CBPReading::get_Pulse(VARIANT *pval)
89 (
       _valiant_t vVal(*pVal, false).
vVal = m_vPulse;
90
91
92
       *pVal = vVal.Detach();
93
       return S_OK;
94 }
95
96 STDMETHODIMP CBPReading::put_Pulse(VARIANT newVal)
97 [
98
       m vPulse = newVal;
99
       return S_OK:
100 }
101
103 // internal C++ interface
104 bool CBPReading::load(CSdoRecordset & rs)
105 1
106
       m_vvulse = rs.gerrield("nulse"):
107
       m_vDiastolicBP = rs.getField("diastolic bp");
       m_vsystolicBP = rs.getField("systolic_bp");
108
       m_vReadingDt = rs.getField("reading_dt");
109
110
       m vKloskUserID = rs.getField("klosk user id");
       return true:
111
112 }
113
114
```

```
1 // CoKCData.cpp : Implementation of CKCData
 2 #include "stdafx.h"
 3 #include "KCData:h"
 4 #include "CoKCData.h"
 5 #include "CoMCUser.h"
 6 #include "registryKCuata.h"
 7 #include "Encryptor.h"
 8
 9 #include "rs_kcdata.h"
10
11 HRESULT CKCData::FinalConstruct()
12 (
13
      m_lKioskId - 0;
14
       m pconn = NULL;
15
       return CoCreateFreeThreadedMarshaler(
16
          GetControllingUnknown(), &m_pUnkMarshaler.p);
17 }
18
19 void CKCData::FinalRelease()
20 €
21
      close();
22
      m_pUnkMarshaler.Release();
23 }
24
25
27 // CKCData
28
29 STDMETHODIMP CKCData::IntertaceSupportsErrorInto(REFIID riid)
30 (
31
      static const IID* arr[] =
32
33
          &IID IKCData
34
35
36
      for (int i=0; i < sizeof(arr) / sizeof(arr[0]); i++)
37
38
          if (InlineIsEqualGUID(*arr[i], riid))
39
              return S_OK;
4Ú
41
42
      return S_FALSE:
43 }
44
45 STDMETHODIMP CKCData::open()
46
  (
47
      HRESULT hr = S_OK;
48
49
      try
50
51
          CRegistryKCData registry:
52
          if {!registry.open(})
53
54
              Error(registry.m_strLastError.c_str(), IID_IKCData, E_FAIL);
55
              throw E_FAIL;
56
          }
57
58
          m_lKioskId = registry.m_lKioskId;
59
          m_lReadingsToKeep = registry.m_lNumberReadingsToKeep;
60
61
          if (m pconn != NULL)
62
              delete m pconn;
63
64
          m_pconn = new CSdoConnection;
65
66
          // these options are not compatible with access driver
```

```
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 67
            m_pconn->setCommitOptionsOnConnect(false);
 68
            .m_pconn->useProvider(false);
 59
            m_pconn->setForwardRecordsetToOpen(false);
 70
 71
             string strConn - "DSN-";
 72
            strConn += registry.m_strKCDataSource + ";";
 73
 74
            if ('m_pconn->connect( strConn.c_str(),
 75
                                      registry.m_strKCUser.c_str(),
 76
                                      registry.m_strKCPassword.c_str() ))
 77
             (
 78
                 string strError;
 79
                m_pconn->getLastError(strError);
 80
                 Error(strError.c_str(), IID_IKCData, E_FAIL);
 8.1
                 throw E FAIL;
 32
 83
        }
 84
        catch (HRESULT hrError)
 85
 86
            hr = hrError;
 87
 88
        catch(...)
 89
 ЭÛ
            hr = E_FAIL;
 91
 92
 93
        return hr;
 94 }
 95
 96 STDMETHODIMP CKCData::close()
 97 {
 98
        if (m_pconn)
 99
        (
100
            m_pconn->close():
101
            delete m_pconn;
102
103
104
        m_pconn = NULL;
105
        return S OK;
106 l
107
108 STDMETHODIMP CKCData::buildRegistry()
109 (
        HRESULT hr = S_OK;
110
111
112
        CRegistryKCData registry;
113
        if (!registry.buildInitial())
114
            Error(registry.m strLastError.c str(), IID IKCData, hr = E FAIL);
115
116
        return hr;
117 ]
110
119 STDMETHODIMP CKCData::getKioskUser(VARIANT vKioskId, VARIANT vIdType, VARIANT *
        pvDispUser)
120 (
121
        VariantInit(pvDispUser);
        _variant_t vRetVal((IDispatch *) NVLL, false);
122
123
124
        HRESULT hr = S_OK;
125
126
        try
127
126
            Cis_kodala is;
            rs.setActiveCommand("cmdGetById");
129
130
            rs.setParameter("alternate_id", _variant_t(vKioskId));
            rs.setParameter("id_type", _variant_t(vIdType));
131
```

```
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132
             if (!m_pconn->execute(rs))
133
134
                 string strError;
135
                 m_pconn->getLastError(strError);
136
                 Error(strError.c_str(), IID_IRCData, hr = E_FAIL);
137
138
139
140
            if (!rs.isEmpty())
141
142
                 ccomcoject<CKCUser> * pobjUser;
143
144
                 if (FAILED(hr = CComObject<CKCUser>::CreateInstance(&pobjUser)))
145
146
                     Error("CComObject<CKUser>::CreateInstance() failed.", IID_IKCUser, hr)*
147
                     throw hr;
148
149
150
                 pobjUser->setOwner(this);
151
                 Thispatch * pThisp = NILL;
152
153
                 if (FAILED(hr = pobjVser->QueryInterface(IID_IDispatch, (void **) 6
        plbisp)))
154
                 1
155
                     Error ("QueryInterface (IDispatch **) failed", IID IKCUser, hr);
156
                     pobjUser->Release();
157
                     throw hra
156
159
160
                vRetVal - pIDisp;
161
162
                pobjUser->load(rs);
163
164
165
        catch(_com_error & e)
166
167
             bstr_t bstrError = e.Description();
            Error((char *) bstrError, HD_IKCData, hr = e.Error());
168
169
170
        catch (MRESULT hrError)
171
172
            hr = hrError;
173
        parch(...)
174
175
1/6
            hr = E_FAIL;
177
178
179
        *pvDispUser = vRetVal;
180
181
        tetaro hr:
182 }
183
194 STDMETHODIMP CKCData::getLCUser(VARIANT vLoyon, VARIANT *pvUser)
185 {
186
        VariantInit (pvUser);
187
        _variant_t vRetVal((IDispatch *) NULL, false);
188
189
190
        HRESULT hr = S OK;
191
192
        rry
193
194
            // check to see if LC user
195
            Crs_lifeclinic_users rsLC;
```

```
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            rsLC.setActiveCommand("getByName");
196
            rsLC.setParameter("user_name", _variant_t(vLogon));
197
            if (!m_pconn->execute(rsLC))
198
199
            {
200
                string strError;
                m_pconn->getLastError(strError);
201
                Error(strError.c_str(), IID_IKCData, hr = E_FAIL);
202
                throw hr:
203
204
205
           _variant_t vUserName;
206
            variant t vUserPassword;
207
            _variant_t vCpiId;
208
209
            _variant_t vUser;
21.0
            if (!rsLC.isEmpty())
211
212
            {
                vCpiId - rsLC.getField("lifeclinic_id");
213
                string strEncryptedPassword;
214
215
                string strPassword;
                rstC.getField("password", strEncryptedPassword);
216
                if (strEncryptedPassword.size())
217
219
219
                    CEncryptor encryptor;
                    encryptor.Decrypt(strEncryptedPassword.c_str(), NULL, strPassword);
220
                    vUserPassword = strPassword.c_str();
221
222
                vUserName = rsLC.getField("user_name");
223
                csLC.close();
224
225
                if (FAILED(getKioskUser(vCpiId, _variant_t((long) IdType_LC), &vRetVal)))
226
                    throw E_FAIL;
227
228
                IKCUser * pIKCUser - NULL;
229
                bool fNewUser = false;
230
                if (vRetVal.pdispVal == NULL)
231
232
                {
                     if (FAILED(createUser(&vRetVal)))
233
                         throw F_FATT.;
234
235
                     fNewUser = true;
23€
237
                ì
238
                if (FAILED(hr = vRetVal.pdispVal->OueryInterface(HID_IKCUser, (void **) & &
239
        pIKCUser)))
240
                ŧ
                     stringstream strmError;
241
                     strmError << "pIDispatch->QueryInterface(IID_IKCuser) failed. Error = &
242
        {";
                     strmError << std::hex << hr << "].";
243
                     Error(strmError.str().c_str(), IID_IKCData, hr);
244
245
                     throw hr;
                 ł
246
247
                if (fNewUser)
248
249
                     pIKCUser->addAlternateID(vCpiId. _variant_t((long) IdType_LC));
250
                     pikumeer->pur meerstatus ( variant ti(long) mstat unewku)];
251
                     pIMCUser-Supdate():
252
253
254
                 pIKCUser->put_LCUser(vUserName);
255
```

pIKCUser->put_LCPassword(vüserPassword);

pIKCUser->Release();

256

257 258 259

1

```
catch (_com_error & e)
260
261
            bstr_t bstrError = e.Description();
262
           Error ((char +) betrError, IID_IKCData, hr = e.Elgor()))
263
764
       catch (HRESULT hrError)
265
266
           hr = hrError;
267
268
        catch(...)
269
270
            hr = E_FAIL;
271
272
273
        *pvUser = vRetVal.Detach();
274
275
        return hr;
276
277 }
278
279
280 STDMETHODIMP CKCData::createUser(VARIANT * pvUser)
281 (
        HRESULT hr = S_OK;
383
        bool fTransBegun - false;
283
        string strError;
284
        CComObject<CKCUser> * pobjUser = NULL;
285
 286
 287
        try
 288
             if (m_pconn == MULL || !m_pconn=>isConnected())
 289
                Error("There is no database connection", IID_IKCData, hr = E_FAIL);
 290
 291
                throw hr;
 292
 293
             294
 295
             // create underlying database record
 296
             fTransBegun = m_pconn->beginTrans();
 297
 298
             Crs_kcuser
 299
             rs.setActiveCommand("cmdInsNewUser");
 300
             rs.setParameter("kiosk_id", _variant_t(m_lKioskId));
 301
             if (!m_pconn->execute(rs))
 302
 303
                 m_pconn->getTastError(strError);
 304
                 Error(strError.c_str(), IID_IKCData, E_FAIL);
 305
                 throw E FAIL;
 306
 307
 308
             // get the newly created id
 309
             rs_setActiveCommand("smdGetNewUser");
 310
             if (!m_pconm->execute(rs))
 311
 312
                 m_pconn->getLastError(strError);
 313
                 Error(strError.c_str(), IID_IKCData, E_FAIL):
 314
                 throw & EALU
  315
  316
              variant_t vNewId = rs.qetField("kiosk_user_id");
  317
             rs.close();
  318
  319
              // mark record as in use
  320
              rs.setActiveCommand("setUserInUse");
  321
              rs.setParameter("in_use", _variant_t(-lL));
  322
              rs.setParameter("kiosk_user_id", vNewId);
  323
              if (!m_pconn->execute(rs))
  324
  325
```

```
326
                 m_pconn->getLastError(strError);
327
                Error (strError_c_str(), LID_IKCData, E_EALL);
328
                 throw E_FAIL;
329
            }
330
331
            // put primary id in id map
            rs.setActiveCommand("putIdMap");
332
333
            rs.setParameter("kiosk_id", _variant_t(m_lKioskId));
            rs.setParameter("alternate id", vNewId);
rs.setParameter("kiosk_user_id", vNewId);
334
335
336
            if (im_pconn->execute(rs):
337
            į
338
                m_pconn->getLastError(strError):
339
                Error(strError.c_str(), IID IKCData, E FAIL);
340
                throw E_FAIL;
341
342
343
            344
            // create com object
345
            if (FAILED(hr = CComObject<CKCUser>::CreateInstance(&pobjUser)))
346
347
                Error("CComObject<CKCUser>::CreateInstance() failed", IID_IKCData, hr);
348
                throw hr;
349
350
            pobjUser->setOwner(this);
351
            pobjUser->m_vKioskUserID = vNewId;
35%
353
354
            // return IDispatch in VARIANT
            IDispatch * pIDisp = MULL;
355
35€
            if (FAILED(hr = pobjUser->QueryInterface(IID_IDispatch, (void**) &pIDisp)))
357
358
                Error("CComObject<CKCUser>::QueryInterface(IDispatch) failed", ITD_IKCDataw
        , hr);
354
                throw hr;
360
            }
361
362
             variant_t vRet(pIDisp, false);
363
            *pvUser = vRet.Detach();
364
365
            pobjUser = NULL;
366
367
        catchi_com_error & el
3.5.8
369
             bsti_t bstiError - e.Déscription();
370
            Error ((char *) bstrError, IID_IKCData, hr = e.Error());
371
372
        catch (HRESULT hierior)
373
        (
314
            hr = hrError;
375
376
        catch(...) ·
377
378
            Error("Unknown exception", TID TRCData, hr = E FAIL);
379
380
381
        if (fTransBegun)
382
383
            if (SUCCEEDED(hr))
                m_pconn=>commitTrans();
304
385
            else
386
                m_pconn->rollbackTrans();
387
388
389
        // if pobjUser is valued then an error ocurred after its creation
390
        if (pobjUser != NULL)
```

```
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```

```
391
             delete pobjuser;
392
393
         return hr;
394 }
395
396 STDMETHODIMP CKCData::getUnexportedData(VARIANT *pvData)
397 {
398
        HRESULT hr = S OK;
399
400
        VariantInit(pvData);
401
        string strError;
402
403
        trv
404
405
             Crs_kcuser rsUser;
406
            Crs_blood_pressure rsBP;
407
            Crs_weight rsWeight;
408
            Crs_alternate_id rsIds;
409
410
            rsUser.setActiveCommand("getUnExported");
411
            rsBP.setActiveCommand("getUnExported");
412
             rsWeight.setActiveCommand("getUnExported");
413
            rsIds.setActiveCommand("getUnExported");
414
415
            if (!m_pconn=>execute(rsUser))
416
417
                m_pconn->getLastError(strError);
418
                Error(strError.c_str(), IID_IRCData, E_FAIL);
419
                throw E_FAIL;
420
421
422
            if (!m_pconn=>execute(rs8P))
423
424
                m_pconn->getLastError(strError);
425
                Error(strError.c_str(), IID_IKCData, E_FAIL);
426
                throw E FALL;
427
428
429
            if (!m_pconn->execute(rsWeight))
430
431
                m_pconn->getLastError(strError);
                Error(strError.c_str(), IID_IKCData, E_FATL);
432
433
                throw E_FAIL;
434
            }
435
436
            if (!m_pconn->execute(rsIds))
437
434
                m poonn->gertaerHrror(strehrror);
439
                Error(strError.c str(), IID IKCData, E FAIL);
440
                throw E_FAIL:
441
            j
442
443
            GXmlDocument xdocXData("<kiosk data/>");
444
            xdocXData_setUpperCaseTags(false):
445
446
            Pavaer. Lonmi (NdoenData);
447
            rsBP.toXml(xdocXData);
448
            rsWeight.toXml(xdocXData);
449
            rsIds.toXml(xdocXData);
450
451
            string strXml;
            xdocXData.getXML(strXml);
452
453
454
             variant_t vVal = strXml.c str();
            *pvData = vVal.Detach();
455,
456
        )
```

```
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```

```
457
        catchi_com_arror & e)
458
        (
459
            Error((BSTR) e.Description(), IID_IKCData, hr = e.Error());
460
461
        catch (HRESULT hrError)
462
463
            hr = hrError;
464
465
        catch(...)
466
        1
457
            hr = E_FAIL;
468
        ŀ
469
470
        return hr:
471 }
472
473 STOMETHODIMP CKCData::markDataExported()
474 (
475
        HRESULT hr = S_OK;
476
        string strError;
477
        bool fTransStarted = false;
4.74
479
        try
480
491
            Cra_kouser radaer;
492
            Crs_blood_pressure rsBP;
483
            Crs_weight rsWeight;
484
            Crs_alternate_id rslds;
485
486
            rsUser.setActiveCommand("markExported");
487
            rsBP.setActiveCommand("markExported");
488
            rsWeight.setActiveCommand("markExported");
489
            rsIds.setActiveCommand("markExported");
490
491
            492
            1
493
                m_pconn->qetLastError(strError);
494
                Error(strError.c_str(), IID_IKCData, E_FAIL);
495
                throw E FAIL;
496
            ì
497
498
            if ('m_pconn->execute(rsUser))
499
500
               m_poonn->getLastBrror(strError);
501
                Error(strError.c_str(), IID_IKCData, E_FAIL);
502
                throw E FAIL;
503
504
505
            if (!m pconn->execute(rsBP))
506
507
                m_pconn->gotlastError(strError);
500
                Error(strError.c_str(), HID_INCData, E_FAIL);
509
                throw E FAIL;
510
511
512
           If (!m_pconn->execute(raweight))
513
514
               m_pconn->getLastError(strError);
515
               Error(strError.c_str(), IID_TKCData, E_FAFL);
516
                throw E_FAIL;
517
518
519
            if (!m_pconn=>execute(rsTds))
520
521
               m pconn=>getLastError(strError);
522
               Error(strError.c_str(), IID_IKCData, E_FAIL);
```

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```

```
9
```

```
throw E FAIL;
523
524
525
        catch (_dom_error a e)
526
            Error((BOTR) e.Description(), IID_IMCData, hr = e.Error());
527
528
529
        catch (HRESIMA hrerror)
530
531
            hr = hrBrror;
532
533
        catch(...)
534
535
        ş
             hr = E_EALIS
536
        Ì
537
538
         if (fframéstarted)
539
540
             if (SUCCEEDED(hr))
541
                 m_pconn->commitTrans();
 542
 543
                 m_pconn=brollbackTrans();
 544
 545
 545
         return hr; .
 547
 548 1
 549
 550 STDMETHODIMP CKCData::markDataUnexported()
 551 1
         HRESULT hr = S_OK;
 552
         string strError;
 553
         bool fTransStarted = false;
 554
 555
          try
 556
  557
              Crs_kcuser rsUser;
  558
              Crs_blood_pressure rsBP;
  559
              Crs_weight rsWeight;
  560
              Crs_alternate_id rsIds;
  561
  562
              rsUser.setActiveCommand("markUnexported");
  563
              rsRP.setActiveCommand("markUnexported");
              rsWeight.setActiveCommand("markUnexported");
  564
              rsids.setActiveCommand("markUnexported");
  565
  566
              if (!(fTransStarted = m_pconn->beginTrans()))
  567
  568
              1
  569
                  #_BCONN->der@effictor(efffictor);
                  Error (strError.c_str(), IID_IKCOata, E_FAIL);
  579
  531
                   throw E_FAIL:
  572
  573
  574
               if (im_ponun-besegui,e(esisee))
  575
  576
                   m_pconn->getLastError(strError);
                   Error(strError.c_str(), IID_IKCData, E_FAIL);
  577
  578
                   throw E_FAIL:
   579
   580
   581
               if (!m_pdonn->execute(rsRP))
   582
   583
                   m_pconn->getLastError(strError);
                   Error(strError.c_str(), IID_IKCData, E_FAIL);
   584
   585
                   throw E_FAIL;
   586
   587
               ł
   588
```

```
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  589
              if (im_pconn->execute(rsWeight))
  5.90
  591
                   m_pconn->getLastError(strError);
  592
                  Error(strError.c_str(), IID_IKCData, E_FAIL);
  593
                   throw E_FAIL;
  504
  595
  596
              if ('m_pconn->execute(rsIds))
  597
  599
                  m_pconn->getLastError(strError);
  599
                  Error(strBrror.c_str(), IID_IKCData, E_FAIL);
  600
                  throw E_FAIL;
  601
  502
  603
          catch (_com_error & e)
 604
              Error((ÉSTŘ) e.Description(), říb_řŘČData, hr = e.Error());
 õũ5
 606
 607
          catch (HRESULT McError)
 608
 609
             hr = hrError;
 610
         }
 611
         catch(...)
 512
 613
             hr = E FAIL;
 614
 615
 616
         if (fTransStarted)
 617
 519
             if (SUCCEEDED(hr))
 619
                 m_pconn->commitTrans();
 620
             else
 621
                 m_pconn->rollbackTrans();
 622
 623
 624
         return hr;
625 }
526
627 STEMETHODIME CKCData::importLCUsers(VARIANT vFileName)
628 {
629
         HRESULT hr = S OK;
630
631
         cry
632
             string strFileName - (char *) (_bstr_t) vFileName:
633
634
635
             CXmTDocument xdocLCUsers;
            if (!loadWmlFile(stoFileNamego_str(), xdomicUsers, false))
636
637
                 throw E FAIL;
638
639
            Camiblement ellable,
640
541
            if (xdocLCUsers.getItem("cpi_user", &elTable))
642
643
                xdocLCUsers.pushCurrent(&elTable);
504
                Crs_lifeclinic_users rsLCUsers;
€45
                if {!applyTable(xdocLCUsers, rsLCUsers, FLAG_INSERT | FLAG_UPDATE)}
ស៊ីផ្លូំស៊ី
                     throw E FAIL;
647
                xdocLCUsers.popCurrent();
648
649
650
        catch (_com_error & e)
551
            Error((ESTR) e.Description(), [iv_ikcbata, hr = e.Error());
05Z
653
        catch (HRESHDT hiteror)
654
```

```
655
        i
            hr = hrError;
656
657
        }
        catch(...)
658
€59
        ł
            hr = E_FAIL;
ก็ก็ติ
661
        1
662
663
        relain bire
664
665
565
667 STDMETHODIME CKCData::importData(VARIANT vFileName)
568 (
        HRESULT hr = S_OK;
669
670
        try
671
             string strFileName = (char *) (_bstr_t) vFileName;
672
673
             CXmibocument docTrans;
014
             if (!loadXmlFile(strFileName.c str(), docTrans, true))
675
                 throw E_FAIL;
 676
677
             CXmlElement elTable;
 678
 679
             // apply id map to the database
 680
             if (docTrans.getItem("kc_id_map", &elTable))
 681
 682
             1
                 docTrans.pushCurrent(%elTable);
 683
                 Crs_alternate_id rsIdMap;
 694
                 if (tapplyTable(docTrans, rsIdMap, FLAG_INSERT))
 €95
                      throw E FAIL:
 ńäń
                 docTrans.popCurrent();
 687
             ì
 688
 689
         1
         catch (_com_error & e)
 690
             Error((#STR) e.Description(), IID_IRCData, hr = e.Error());
 691
 ŏ9Z
 693
         catch (HRESULT indicor)
 694
 695
         1
             hr = hrError;
 696
 697
         }
 €98
         catch(...)
  594
              hr = E FAIL;
  700
          1
  701
  702
          return hr;
  703
  704 }
 706 STDMETHODIMP CKCData::checkKioskUserID(VARIANT vKioskID, VARIANT *pvIDExists)
  707 {
          HRESULT hr = S_OK;
  708
          bool fSuccess = false;
  709
  710
  711
          CEY
  712
          Ĺ
  713
              Crs_kcdata rs;
  714
              rs.SetActiveCommand("cmdCheckIDExists");
  715
              rs.setParameter("alternate_id", _variant_t(vKioskID));
  716
  717
              if (im_pconn->execute(ts))
  7 16
  719
                   string strError;
  720
```

```
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```

```
721
                  m_pconn->getBastError(strError);
 7.2.2
                 Error(strError.c_str(), LID_IKCData, hr = E_EALL);
 723
                  throw hr;
 724
             ì
 725
             if (!ra.isEmpty())
 726
 727
                 fSuccess = true;
 728
             else
 729
                 fSuccess - false;
 730
 731
         catch(_com_error & e)
 732
733
             _bast_t barrarror = e.:magriorion():
Error((char *) batrError, IID_IMCData, hr = e.Error());
714
735
736
737
         catch (HRESULT hrerror)
738
739
             he = hiEecur;
740
741
         catch(...)
742
743
             hr = E FAIL;
744
745
746
         variant_t vRetVal = fSuccess;
        *pv10Exists = vBetval;
747
748
         return hr;
743
750
751
752 bool CKCDala::applyTable(CKmlDocument & xdoc, CSdoRecordset & rs, unsigned short
        fUpdateFlags)
753 (
754
        CXmlElement elTable;
755
        CXmlElement elRow;
756
        xdoc.getCurrent(&elTable);
757
        bool fRowFound = elTable.getFirst(&elRow);
758
        while (fRowFound)
759
760
             // check if record exists
761
            xdoc.pushCurrent(&elRow);
762
            rs.setActiveCommand( applyExists );
763
            rs.getActiveCommand()->clearParms();
            rs.getActiveCommand()=>setParmsOnly(xdog);
764
765
            xdoc.popCurrent();
766
            if (!m_pconn=>execute(rs))
767
            ŧ.
768
                 string strError;
769
                 m_pconn->getLastError(strError);
770
                 Error(strError.c_str(), IID_IKCData, E_FAIL);
771
                 return false;
7.72
773
            bool fExists = !rs.isEmpty();
774
            is.tiuse();
175
776
            // if row doesn't exist and fInserts true then add it
777
            if (![Exists && (fUpdateFlags & FLAG_INSERT))
778
779
                xdoc.pushCurrent(&elRow);
760
                rs.setActiveCommand("applyInsert");
                rs.gotActiveCommand()->clearParms();
781
782
                rs.getActiveCommand()->setParmsOnly(xdoc);
783
                xdoc.popCurrent();
784
                if (!m_pconn=>execute(rs))
785
                ş
```

```
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```

```
786
                     string strError;
787
                     m_pconn->getLastError(strError);
788
                     Error(strError.o.str(), TID_TKCData, E'FATL);
789
                     return false;
790
791
            į
792
793
            // if row exists and fUpdates true then update it
794
            if (texiscs we (fundamerians & class_uruars))
795
7.96
                xdoc.pushCurrent(&elRow);
797
                rs.setActiveCommand("applyUpdate");
798
                rs.getActiveCommand()->clearParms();
799
                rs.getActiveCommand()->setParmsOnly(xdoc);
800
                xdoc.popCurrent();
801
                if (!m_pconn=>execute(rs))
802
                {
803
                    string strError;
804
                    m pconn->getLastError(strError);
805
                    Error(strError.c_str(), IID_IKCData, E_FAIL);
805
                     return false:
807
808
809
810
            fRowFound = elTable.getNext(selRow);
811
812
813
        return true;
814 }
815
816 bool CKCData::loadMmlFile { LPCSTR pszFileName, CKmlDocument & xdocResult, bool
        fEncrypted)
817 (
        bool fSuccess = true;
818
819
820
        stringstream strmError;
821
        HRESULT hr = S_OK;
822
823
        trv
924
        Ĭ
825
            strmError << "CKCData::loadXmlFile():";</pre>
826
827
            // open import file name
838
            FILE * pstream = fopen(ps:FileName, "rb");
629
            if (patream -- NULL)
030
831
                strmError << "Unable to open file [" << pszFileName << "].";
832
                Error(strmError.str().c_str(), IID_IKCData, E_FAIL);
833
                throw E_EAIL:
834
835
836
            // get the size of the file
            fseek (pstream, 0, SEEK END);
937
838
            long lFileSize = ftell(pstream);
RTA
            fseek (pstream, 0, SEEK_SET);
840
841
            // allocate file buffer
            unsigned char * pBuff = new unsigned char [IFileSize + 1]:
842
843
            if (pBuff == NULL)
844
            1
                strmerror << "unable to allocate file buffer, out of memory,":
×45
846
                Exror(strmError.str().c_str(), IID_IKCData, E_FAIL);
847
                throw E FAIL:
040
849
            pBuff[lFileSize] - 0;
850
```

```
// read the import file
854
            long lBytesRead = fread(pBuff, 1, lFileSize, pstream);
852
            it (iRytesRead != lFilesize)
853
                 strmError << "CKCData::importData() failed. Unable to read file [";</pre>
954
855
                 strmError << pszFileName << "|.";
                 Error(strmError.str().c_str(), TID_IKCData, E_FAIL);
856
857
                 throw S_FAIL;
858
859
860
            // decrypt the file to xml
861
            string strXmlData;
862
             if (fEncrypted)
863
664
                 CEncryptor encrypt;
                 encrypt.Decrypt((LPCSTR) pButt, NULL, strXmlData);
865
866
867
             else
8.88
                 strXmiData = (const char *) pBuff;
êñ9
870
             delete [] pBuff:
871
872
             // parse the xml
873
             xdocResult.loadDocument(strXmlData.c_str());
874
             if {!xdocResult.isReady()}
 975
             ŧ
 876
                  string strearsemrror;
 ė77
                 xdocResult.getParserError(strParseError);
                 strmError << "Unable to parse import file (" << pszFileName << "). Error =
 878
 879
          1";
                 strmError << strParseError << "].";
Error(SirmError.sir().c_sir(), ITD_IKCData, R_FAIL);
 .8.8.0
 881
                 throw E FAIL;
 882
             }
 883
 884
         catch(_com_error & e)
 885
              Error((ESTR) c.Deportation(), Fin_IMCData, hr = c.Error());
 RAG
 007
              fSuccess = false;
 999
 AA4
          catch (HRESULT hrError)
 890
 891
              he = hencears
  847
              fSuccess = false;
  693
  894
          catch(...)
  895
  898
          ł
              hr = E FAIL;
  Ã97
              fSuccess = false:
  898
  899
  900
          return fSuccess:
  901
  902 1
  993
  904
```

```
c:\Documents and Settings\Billy\My ...\LCServices\KCData\CoWeightReading.cpp
  1 // CoWeightReading.cpp : Implementation of CWeightReading
  2 #include "stdafx.h"
  3 #include "KCData.h"
  4. #include "CoffeightReading.h"
  5 Winclude "rs_kodata.h"
  8 // CWeightReading
 10 STDMETHODIMP CWeightReading::InterfaceSupportsErrorInfo(REFIID riid)
 11 (
 12
       static const IID arr[] =
 13
 ia
           kTID IWeightReading
 15
       1:
       for (int i=0: i < sizeof(arr) / sizeof(arr[0]); <math>i++)
 16
 17
 18
           if {InlineIsEqualGUID{*arr{i}, riid}}
 19
               return S_OK:
 ŹÚ
 21
       return S_FALSE;
 22 ;
 23
24 HRESULT CWeightReading::FinalConstruct()
25 ( .
26
       m_vKioskUserID.vt = VT NULL;
27
       m vWeight.vt = VT NULL;
28
       m_vReadingDate.vt = VT NULL;
29
30
       return 8 UK;
31 )
35
33 void CWeightReading::FinalRelease()
34 (
35
       return:
36 }
37
38
39 STDMETHODIMP CWeightReading::get_Weight(VARIANT *pVal)
40 (
41
        variant_t vVal(*pVal, false);
42
       vVal = m vWeight;
       *pyal = Wyai. Detach();
4.3
       return S_OK;
44
45 1
46
47 STDMETHODIMP CWeightReading::put_Weight(VARIANT newVal)
48 {
49
      m_vWeight = newVal;
50
      return S_OK;
51 }
52
53 STDMETHODIMP CWeightReading::gec_KioskUserID(VARIANT *pval)
54 {
55
       variant t vVal(*pVal, false);
56
      AAST = # ARTOSKILSSETÜ
57
      *pVal = vVal.Detach();
Sa
      return S_OK;
59 }
60
61 STOMBTHODIMP CWeightReading::get_ReadingDate(VARIANT *pVal)
62 {
63
       variant_t vVal(*pVal, false);
64
      Wal - m_wReadingDate;
      *pVal = vVal.Detach();
65
દદ
```

return S OK;

```
c:\Documents and Settings\Billy\My ...\LCServices\KCData\CoWeightReading.cpp
```

```
67 F
68
69 STDMETHODIMP CWeightReading::put_ReadingDate(VARIANT newVal)
70 {
71
      m_vReadingDate = newVal;
72
      return S_OK;
73 }
74
76 // internal C++ interface
77
78 bool CWaightReading::load(CSdcRecordset & rs)
79 (
ВU
      m_vweight = rs.getField("weight");
81
      m_vReadingDate = rs.getField("reading_dt");
m_vKioskUserID = rs.getField("kiosk_user_id");
82
83
      return true;
84 }
85
```

```
C:\Documents and Settings\Billy\My ...\LCKioskServer\LCKioskServer.cpp
```

```
1 // LCKioskServer.cpp : Implementation of WinMain
 2
 3
 4 // Note: Proxy/Stub Information
          To build a separate proxy/stub DLL,
 5 //
 5 11
          run nmake -f LCKioskServerps.mk in the project directory.
 8 #include "stdafx.h"
 9 #include "resource.h"
10 #include <initguid.h>
11 #include "threadMein.h"
12 #include "LCKioskServer.h"
13 #include "registryKServer.h"
14
15 #include "LCKioskServer i.c"
16
17
18 #include <stdio.h>
19
21 // MFC support
22 UkioskSarverapp _theapp;
23
25 // ATL support
26 CServiceModule _Module;
29 //Global decalrations
                 _logEvents("Kiosk Server");
30 CLogNTEvents
                  logFile("c:\\LCKioskServer.log");
31 CLogFile
32 CLogDebug
                  logDebug;
                 _logAll;
33 CLogMulti
34
35 BEGIN_OBJECT_MAP(ObjectMap)
36 END_OBJECT_MAP()
37
38
39 LPCTSTR findOneOf(LPCTSTR p1, LPCTSTR p2)-
40 (
41
      while (pl != NULL && *pl != NULL)
42
43
          LPCTSTR p = p2;
44
          while (p != WULL && *p != NULL)
45
46
             if (*p1 == *p)
47
                 return CharNext(pl);
48
             p = CharNext(p);
49
         pl = CharNext(pl);
50
51
52
      return NULL;
53 }
54
55 // Although some of these functions are big they are declared inline since they are
      only used once
57 inline HRESULT CServiceModule::RegisterServer(BOOL bRegTypeLib, BOOL bService)
58 (
59
      HRESULT hr = CoInitialize(NULL);
60
      if (FAILED(hr))
61
         return hr;
62
63
      // Remove any previous service since it may point to
64
      // the incorrect file
65
      Uninstall();
```

```
66
 67
        // Add service entries
 68
        UpdateRegistryFromResource(IDR_LCKioskServer, TRUE);
 69
        // Adjust the AppID for Local Server or Service
 70
 71
        CRegKey keyAppiD;
 72
        LONG lRes = keyAppID.Open(HKEY_CLASSES_ROOT, _T("AppID"), KEY_WRITE);
 73
        if (lRes != ERROR_SUCCESS)
 74
            return 1Res;
 75
 76
        CRegKey key;
 77
        lRes = key.Open(keyAppID, _T("{BF823564-E93B-11D3-B88C-CC792E000000}"), KEY WRITE) ←
 78
        if (lRes != ERROR_SUCCESS)
 79
            return LBes;
        key.DeleteValue(_T("LocalService"));
 90
 81
        if (bService)
 82
 83
            key.SetValue(_T("LCKioskServer"), _T("LocalService"));
key.SetValue(_T("-Service"), _T("ServiceParameters"));
 84
 85
 86
            // Create service
 67
            Install();
 88
 89
 90
        // Add object entries
 91
        hr = CComModule::RegisterServer(bRegTypeLib);
 92
 93
        CoUminitialize();
 94
        return hr;
 95 }
 96
 97 inline HRESULT CServiceModule::UnregisterServer()
 98 (
        HRESULT hr = CoInitialize(NULL);
 99
199
        if (PAILED(hr))
101
            return hr;
102
103
        // Remove service entries
        UpdateRegistryFromResource(IDR_LCKioskServer, FALSE);
104
105
        // Remove service .
106
        Uninstall();
107
        // Remove object entries
108
        CComModule::UnregisterServer(TRUE);
109
        CoUninitialize();
110
        return S OK;
111 }
112
113 inline void CServiceModule::Init( ATL OBJMAP ENTRY* p, HINSTANCE h, WINT
        nServiceNameID, const GUID* plibid;
114 {
115
        CComModule::Init(p, h, plibid);
116
117
        m_bService = TRUE;
118
        LoadString(h, nServiceNameID, m_szServiceName, sizeof(m_szServiceName) / sixeof 🕜
119
        (TCHAR));
ìZÛ
121
        // set up the initial service status
122
        m_hServiceStatus = NULL:
        m_status.dwServiceType = SERVICE_WIN32_OWN_PROCESS;
123
134
        m_status.dwCurrentState = SERVICE_STOPPED;
125
        m_status.dwControlsAccepted = SERVICE_ACCEPT_STOP;
126
        m_status.dwWin32ExitCode = 0;
        m_status.dwServiceSpecificExitCode - 0;
127
128
        m status.dwCheckPoint = 0;
```

```
C:\Documents and Settings\Billy\My ...\LCKioskServer\LCKioskServer.cpp
129
        m_status.dwWaitHint = 0;
130 }
131
132 LONG CServiceModule::Unlock()
133 {
134
        LONG 1 = CComModule::Unlock();
        if (1 == 0 && !m_bService)
135
136
            PostThreadMessage (dwThreadID, WM_QUIT, D, D);
137
        return 1;
130 }
139
140 BOOL CServiceModule::IsInstalled()
141 (
142
        BOOL bResult = FALSE;
143
        SC_HANDLE hSCM = ::OpenSCManager(NULL, NULL, SC_MANAGER_ALL_ACCESS);
144
145
146
        if (hSCM != NULL)
147
148
            SC_HANDLE hService = ::OpenService(hSCM, m_szServiceName,
        SERVICE QUERY CONFIG);
149
            if (hService != NULL)
150
151
                bResult = TRUE;
152
                ::CloseServiceHandle(hService);
153
154
            :: CloseServiceHandle(hSCM);
1.55
155
        return bResult;
157 }
158
159 inline BOOL CServiceModule::Install()
160 (
161
        if (IsInstalled())
162
            return TRUE;
163
154
        SC_HANDLE hSCM = ::OpenSCManager(NULL, NULL, SC_MANAGER_ALL_ACCESS);
165
        if (hSCM == NULL)
166
167
            MessageBox(NULL, _T("Couldn't open service manager"), m_szServiceName, MB OK);
168
            return FALSE:
169
170
171
        // Get the executable file path
172
        TCHAR szFilePath[ MAX PATH];
173
        ::GetModuleFileName(NULL, szFilePath, MAX PATH);
174
175
        SC_HANDLE hService = ::CreateService(
176
            hSCM, m_szScrviceName, m_szScrviceName,
177
            SERVICE ALL ACCESS, SERVICE WIN32 OWN PROCESS,
            SERVICE DEMAND START, SERVICE ERROR NORMAL,
178
179
            szFilePath, NULL, NULL, _T("RPCSS\0"), NULL, NULL);
180
191
        if (hService == NULL)
182
        ί
183
            ::CloseServiceHandle(hSCM);
184
            MessageBox(NULL, _T("Couldn't create service"), m szServiceName, MB OK);
185
            return FALSE;
186
        )
187
188
        ::CloseServiceHandle(hService);
189
        :: CloseServiceHandle (hSCM);
190
        return TRUE;
191 |
192
193 inline BOOL CServiceModule::Uninstall()
```

```
C:\Documents and Settings\Billy\My ...\LCKioskServer\LCKioskServer.cpp
194 (
195
       if (!IsInstalled())
196
          return TRUE;
197
198
       SC_HANDLE hSCM = ::OpenSCManager(NULL, NULL, SC_MANAGER_ALL_ACCESS);
199
200
       if (hSCM == NULL)
201
202
          MessageBox(NULL, _T("Couldn't open service manager"), m_szServiceName, MB_OK);
203
          return FALSE;
204
       ì
205
       SC_HANDLE hService - ::OpenService(hSCM, m_szServiceName, SERVICE_STOP | DELETE);
206
207
208
       if (hService == NULL)
209
210
          ::CloseServiceHandle(hSCM);
211
          MessageDox (NULL, _T("Couldn't open service"), m_ssServiceName, MD_OK);
212
          return FALSE;
213
       SERVICE STATUS status:
214
215
       ::ControlService(hService, SERVICE_CONTROL_STOP, &status);
216
217
       BOOL bDelete = ::DeleteService(hService);
218
       ::CloseServiceHandle(hService);
219
       ::CloseServiceHandle(hSCM);
220
221
       if (bDelete)
222
          return TRUE;
223
224
       MessageBox (NULL, Ty"Service could not be deleted"), m_szServiceName, MB_OK);
       return FALSE;
225
226 }
227
229 // Logging functions
230 void CServiceModule::LogEvent(LPCTSTR pFormat, ...)
231 {
232
       TUHAK chMsg[2048];
233
       va list pArg;
234
235
       va_start(pArg, pFormat);
236
       vetprintf(chMag, pFormat, pArg);
237
       va_end(pArg);
238
239
       CLogMagEvent(LCEV GENERIC, -1, chMag).Post(_logAll);
240 }
241
111111111
243 // Service startup and registration
244 inline void CServiceModule::Start()
245 {
246
       SERVICE_TABLE_ENTRY st[] =
247
```

{ m_szServiceName, _ServiceMain },

if (m bService && !::StartServiceCtrlDispatcher(st))

{ NULL, NULL }

m bService = FALSE;

if (m bService == FALSE)

Run();

248

249

250

251 252 253

254 255

256

257 }

```
C:\Documents and Settings\Billy\My ...\LCKioskServer\LCKioskServer.cpp
```

```
5
```

```
258
259 inline void CServiceModule::ServiceMain(DWORD /* dwArgc */, LPTSTR* /* lpszArgv */)
260 (
        // Register the control request handler
261
       m_status.dwCurrentState = SERVICE_START_FENDING;
2.62
       m hservicestatus = RegisterServiceUtrlHandler(m_szserviceName, _Handler);
263
        if (m_hServiceStatus == NULL)
264
265
            CLogMsgEvent("Handler not installed").Post(_logAll);
266
2.67
266
        SetServiceStatus(SERVICE_START_PENDING);
269
270
        m_status.dwWin32ExitCode = S_OK;
271
        m status.dwCheckPoint = 0;
272
273
        m status.dwWaitHint = 0;
274
        // When the Run function returns, the service has stopped.
275
276
        Run ();
277
        SetServiceStatus(SERVICE_STOPPED);
278
279 F
280
281 inline void CServiceModule:: Handler (DWORD dwopcode)
282 (
        switch (dwOpcode)
283
284
        case SERVICE CONTROL STOP:
285
            SetServiceStatus (SERVICE_STOP_PENDING);
286
            PostThreadMessage(dwThreadID, WM_QUIT, 0, 0);
287
288
        case SERVICE CONTROL_PAUSE:
289
290
            break;
        case SERVICE CONTROL_CONTINUE:
291
292
            preak;
        case SERVICE_CONTRUL_INTERROGRIE:
293
294
            break;
        case SERVICE_CONTROL_SHUTDOWN:
295
296
            break;
297
        default:
            CLogMagEvent("Bad service request").Post(_logAll);
298
299
300 }
301
302 word WINAPI CServiceModule::_ServiceMain(DWORD dwArgc, LPTSTR* lpszArgv)
303 1
        Module.ServiceMain(dwArgc, lpszArgv);
304
305 }
306 void WINAPI CServiceModule:: Handler(DWORD dwOpcode)
307 (
         Module.Handler(dwOpcode);
308
309 }
310
311 void CServiceModule::SetServiceStatus(DWORD dwState)
312 (
        m status.dwCurrentState = dwState;
313
         ::SetServiceStatus(m_hServiceStatus, &m_status);
314
315 1
316
317 void CServiceModule::Run()
318 (
         _Module.dwThreadID = GetCurrentThreadId();
319
 320
        HRESULT hr = CoInitializeEx(NULL, COINIT_MULTITHREADED);
321
 322
         if (FATLED(hr))
323
```

```
C:\Documents and Settings\Billy\My ...\LCKioskServer\LCKioskServer.cpp
324
            CLogMsgEvent msg(LCEV_GENERIC, SVRTY ERROR);
           msg << "CoInitializeEx() failed. Error = [Nx" << std::bex << hr << "!";
325
326
           msg.Post(_logAll);
327
            return;
328
        }
329
330
        // This provides a NULL DACL which will allow access to everyone.
331
        CSecurityDescriptor sd:
332
        sd.InitializeFromThreadToken();
333
        hr = CoInitializeSecurity(sd, -1, NULL, NULL,
134
           RPC_C_AUTHN_LEVEL_PKT, RPC_C_IMP_LEVEL_IMPERSONATE, NULL, EOAC_NONE, NULL);
335
        _ASSERTE(SUCCEEDED(hr));
336
        hr = _Module.RegisterClassObjects(CLSCTX_LOCAL_SERVER + CLSCTX_REMOTE_SERVER,
337
        RESCLS MULTIPLEUSE):
338
        _ASSERTE(SUCCEEDED(hr));
339
340
        // MFC support
341
342
        if (theApp_InitApplication() == FALSE)
343
344
           CLogMsgEvent msg(LCEV_GENERIC, SVRTY ERROR);
           msg << "_theApp.TnitApplication() failed";</pre>
345
346
           msg.Post(_logAll);
347
           return;
348
349
350
        if (_theApp.InitInstance() == FALSE)
351
352
           CLogMsgEvent msg(LCEV_GENERIC, SVRTY_ERROR);
           msg << "_theApp.InitInstance() failed";</pre>
353
354
           msg.Post( logAll);
355
            _theApp.ExitInstance();
356
           return;
357
358
359
       // end MFC support
       սուսումուսուսուսուսուսույլ
360
361
362
363
       ClogMsgEvent("Service started").Post(_logAil);
364
       if (m bService)
365
           SetServiceStatus(SERVICE RUNNING);
366
367
       _theApp.Run();
368
       CLogMsgEvent("Service stopped").Post(_logAll);
369
370
371
       _Module.RevokeClassObjects();
372
373
       CoUninitialize();
374 }
375
377 11
378 extern "C" int WINAPI _tWinMain(HINSTANCE hInstance, HINSTANCE hPrevInstance, LPTSTR 😿
       lpCmdLine.
379
                                  int nShowCmd)
380 (
361
        iogAll.Addiboy(&_logEvents);
       _logDebug.Enabled(false);
382
383
       _logAll.AddLog(&_logFile);
384
385 #ifdef
          DEBUG
386
        logEvents.EnableTranslation(true);
387
```

logDebug.Enabled(true);

```
C:\Documents and Settings\Billy\My ...\LCKioskServer\LCKioskServer.cpp
```

```
388
         logAll.AddLog(&_logDebug);
389 #endif
390
        lpCmdLine = GetCommandLine(); //this line necessary for _ATL_MIN_CRT
391
392
        _Module.Init(VojectMap, hInstance, IVS_SERVICENAME, WLIBIV LCKIUSKSERVERLID);
3.93
        Module.m bService - TRUE;
394
395
        TCHAR\ szTokens[] = T("-/");
396
397
        LPCTSTR lpszToken = FindOneOf(lpCmdLine, szTokens);
398
        while (lpszToken != NULL)
399
400
            if (lstrcmpi(lpszToken, _T("UnregServer"))==0)
401
                recurn _Module.UnregisterServer();
4.02
403
            // Register as Local Server
404
            if (lstrcmpi(lpszToken, _T("RegServer")) == 0)
405
                return Module.RegisterServer(TRUE, FALSE);
406
407
            // Register as Service
408
            if (lstrcmpi(lpszToken, T("Service")) == 0)
409
                return Module.RegisterServer(TRUE, TRUE);
410
            // Initialize Configuration Registry Entries
GIL
412
            // Initialize Configuration Registry Entries
413
            if (lstrcmpi(lpszToken, _T("InitReg"))==0)
414
            {
415
                CRegistryKServer reg;
416
                reg.buildInitial();
417
                return 0; .
418
419
420
            lpszToken = FindOneOf(lpszToken, szTokens);
421
422
423
        // Are we Service or Local Server
424
        CRegKey keyAppID;
425
        LONG 1Res = keyAppID.Open(HKEY_CLASSES ROOT, T("AppID"), KEY READ);
426
        if (lRes != ERROR_SUCCESS)
427
            return lRes;
428
429
        CRegKey key;
        lRes = key.Open(keyAppID, _T("(BF823564-E93B-11D3-B88C-CC792E000000)"), KEY_READ);
430
431
        if (IRes != ERROR_SUCCESS)
432
            return lRes;
433
        TCHAR szValuel_MAX_PATH];
DWORD dwLen = _MAX_PATH;
434
435
436
        1Res = key.QueryValue(szValue, _T("LocalService"), &dwLen);
437
438
        Module.m_bService = FALSE;
        If (lRes == ERROR_SUCCESS)
439
440
            Module.m_bService = TRUE;
441
442
        // AFX internal initialization
443
        if (!AfxWinInit(hInstance, hPrevInstance, lpCmdLine, nShowCmd))
444
            CLogMsgEvent (LCEV_GENERIC, SVRTY_ERRUR, "AfxWinInit failed.").Fost(_logAll);
445
        else
446
            Module.Start();
447
        // When we get here, the service has been stopped
448
449
        return _Module.m_status.dwWin32ExitCode;
450 1
451
```

```
C:\Documents and Settings\Billy\My ...\LCKioskServer\threadReceiver.cpp
1 // threadReceiver.cpp : implementation file
2 //
4 #include "stdafx.h"
5 #include "LCKioskServer.h"
6 #include "threadKeceiver.h"
7 #include "filenameDelimited.h"
8 #include "threadMain.h"
9 #include "registryKServer.h"
10 #include "umlKioskCmds.h"
11 #include "Encryptor.h"
12 #include "exports.h"
13 #include "brokerWrap.h"
14
15
16 #ifdef _DERNG
17 #define new DEBUG NEW
19 #undef THIS FILE
19 static char THIS_FILE() = __FILE_;
20 #endif
21
23 // CThreadReceiver
24
25 IMPLEMENT DYNCREATE(CThreadReceiver, CThreadServer)
27 CThreadReceiver::CThreadReceiver()
28 [
      useTimers(m_pnTimers, TIMER_MAX):
29
30 }
31
32 CThreadReceiver::-CThreadReceiver()
33 {
34 1
35
36 BOOL CThreadReceiver::InitInstance()
37 £
38
      if (CThreadServer::InitInstance() == FALSE)
          return FALSE:
39
40
41
      m fMaintenanceDone = false;
      return TRUE:
42
43 }
4.4
45 int CThreadReceiver::ExitInstance()
46 {
      // TODO: perform any per-thread cleanup here
47
      return CThreadServer::ExitInstance();
48
49 1
50
51 BEGIN MESSAGE MAP(CThreadReceiver, CThreadServer)
      /7({AFX_MSG_MAP(CThreadReceiver)
5.2
                                          And the second transfer was to be be
53
54
      //))AFX MSG MAP
      ON THREAD MESSAGE (WMUSER START, onStart)
55
56 END MESSAGE MAP()
57
59 // CThreadReceiver message handlers
60
61 LRESULT CThreadReceiver::onStart(WPARAM wParam, LPARAM 1Param)
```

62 (

63

64 €5

őő

CThreadServer::onStart(wParam, 1Param);

setTimer (TIMER_RECEIVE, 2000);

// todo: testing

```
C:\Documents and Settings\Billy\My ...\LCKioskServer\threadReceiver.cpp
```

```
setTimer (TIMER_CHECK_TIME, 1000);
67
       //setTimer(TIMER_CHECK_TIME, INTERVAL_CHECK_TIME);
68
€9
       setTimer(TIMER_MOVE_FILES, INTERVAL_TIMER_MOVE_FILES);
70
71
72
       return FALSE;
73 }
74
75 void CThreadReceiver::onTimerIndex(int nIdx)
7€ 1
       killTimer(nIdx);
77
78
79
       SYSTEMTIME st:
       GetLocalTime(&st);
80
       SystemTimeToVariantTime(&st, &m_dateNow);
8.1
82
83
       switch (nIdx)
84
       case TIMER RECEIVE:
85
           coTimerReceiveFiles();
86
97
            break;
       case TIMER CHECK TIME:
88
           onTimerCheckTime();
69
            break:
90
       case TIMER_MOVE_FILES:
 91
           onTimerMoveFiles();
 92
 93
           break;
94
        default:
            break;
 95
 96
 97
        return;
 98
 99 }
100
101 void CThreadReceiver::onTimerCheckTime()
102 (
        SYSTEMTIME st:
103
        GetLocalTime(&st);
104
        COleDateTime odtNow:
105
        odtNow.SetTime(st.wHour, st.wMinute, st.wSecond);
106
103
        COleDateTimeSpan udtaNow - udtNow - _theApp.m_pregistry->m_odtEndOfDay/
108
        int nMinutes = odtsNow.GetTotalMinutes();
109
        if (nMinutes > 0 && nMinutes < 60)
110
111
        ĺ
            if (!m_fMaintenanceDone)
112
113
                 m_fMaintenanceDone = true;
114
                 deleteBackupFiles();
115
                 checkLareKiosks();
116
                 buildExports();
117
                 buildUserExports();
118
            }
119
129
        )
        else
121
            m_fMaintenanceDone = false;
122
123
         setTimer(TIMER_CHECK_TIME, INTERVAL_CHECK_TIME);
124
1.25 }
126
127 void CThreadReceiver::onTimerReceiveFiles()
126 (
         CFileNameKiosk fnKiosk;
129
        CFileFind ffLocal;
130
         string strSearchFileName;
131
         CString cstrFileName;
132
```

```
3
```

```
133
        string strKioskId;
134
        string strWork;
135
        string strBackupFile;
136
        CFile file;
        string strXmlCmd;
137
138
        string strXmlResult;
139
        string strXmlError;
140
141
        // set up wild card search name
        fnKiosk.set("direction", "U");
fnKiosk.set("kiosk_id", "*");
fnKiosk.set("date", "*");
142
143
144
145
        fnKiosk.setExtension("XML");
146
        fnKiosk.getFullName(strSearchFileName);
147
148
        // set current directory to the xfer directory
149
        _chdrive(_theApp.m_pregistry->m_lKioskDrive);
150
        string strDirectory = _theApp.m_pregistry->m_strKioskDirectory;
        strDirectory += "Xfer\sqrt{\chi}";
151
        _chdir(strDirectory.c_str());
152
153
        // look at each file in the xfer directory that matches wild card search
154
        bool fFileFound = ffLocal.FindFile(strSearchFileName.c_str()) != FALSE;
155
156
        while (fFileFound)
1.57
150
            fFileFound = ffLocal.FindNextFile() != FALSE;
            cstrFileName = ffLocal.GetFileName();
159
160
161
            // parse filename and get out the kiosk id
162
            fnKiosk.setFullName(cstrFileName);
            fnKiosk.get("kiosk_id", strWork);
1€3
164
            strKioskId = strWork.substr(1, strWork.size() - 1); // drop K prefix
165
            // file errors can occur if we hit a file that is being xmitted, error is a
166
        warning
            CFileException exFile;
167
            if (file.Open(ostrFileName, CFile::modeRead | CFile::shareExclusive, &exFile) 🖍
168
        == FALSE)
169
            ŧ
170
                 char pszError [256];
171
                 *pszError = 0;
                 exFile.GetErrorMessage((LPSTR) pszError, 255);
172
                 CLogMsgEvent msg(LCEV_GENERIC, SVRTY_WARNING);
173
                 msg << "CThreadReceiver unable to open transaction file {";
174
                 msg << (const char *) cstrFileName << "] for storage. Error = [";
175
                 msg << pszError << "]. Cause = [" << exFile.m_cause << "]";
176
177
                 msg.Post(_logAll);
178
                 continue:
179
            }
180
161
             // read in the contents of the file. error is a warning.
            long lfileSize = file.SetLength();
192
            unsigned char * pBuff = new unsigned char [lFileSize + 1];
183
            pBuff[lFileSize] = 0;
184
185
            if (file.Read(pBuff, lFileSize) != lFileSize)
186
                 CLogMsgEvent msg (LCEV GENERIC, SVRTY WARNING);
187
                 msg << "CThreadReceiver unable to read transaction file (";
msg << (const char *) cstrFileName << "] for storage.";</pre>
166
189
190
                 msg.Post( logAll);
191
                 file.Close();
192
                 continue;
193
194
             file.Close();
195
196
            // build xml command
```

```
C:\Documents and Settings\Billy\My ...\LCKioskServer\threadReceiver.cpp
            Cxdoc_uptKioskTrans docXmlCmd;
197
            docXmlCmd.setItemText("kiosk id", strKioskId.c str());
docXmlCmd.setItemText("file_name", cstrFileName);
1.98
199
200
             // decrypt incomming data
20 t
             CEncryptor encrypt;
202
             string strTransXml;
203
             encrypt Decrypt ((LPCSTR) pBuff, NULL, strTransXml);
204
             delete [] pBuff;
205
206
             // parse incomming data
207
             CXmlDocument docXmlTrans(strTransXml.c_str());
208
             i∈ (!docXmlTrans.isReady())
209
210
             1
                 string strError;
211
                 docXmlTrans.getParserError(strError);
212
213
                  // event log message
214
                 CLogMsgEvent msg (LCEV_GENERIC, SVRTY_WARNING);
215
                 msg << "CTbreadReceiver unable to parse transaction file [":
                 mag << (const char *) cotrFileName << "}. MML Parper error = [";
216
217
                 msg << strError << ")";
218
                 msg.Post(_logAll);
219
220
                  // alert personel message
221
                  stringstream strmError;
                  strmError << "The transaction file [" << (const char *) cstrFileName; strmError << "; could not be parsed. The error is [" << strError << "]. "7
 222
 223
                  strmmerror << "You are listed as support personel for this klosk [" <<
 224
 225
         strKioskId;
                  strmError << "]. Please investigate this problem ASAP.";
 226
 227
                  Cxdoc_setKloskAlert docAlert;
 228
                  CXmlElement elParm;
 229
                  docAlert.getItem("parm", &elParm, Cxdoc_setKioskAlert::PARM_kiosk_id);
 230
 231
                  elParm.setText(strKioskId.c_str());
                  docAlert.getItem("parm", &elParm, Cxdoc_setKioskAlert::PARM_error_level);
 232
 233
                  elParm.setText(2);
                  docAlert.getItem("parm", &elParm, Cxdoc_setKioskAlert::PARM_subject);
 234
 235
                  elParm.setText("Kiosk transaction file parse error");
 236
                  docAlert.getItem("parm", &elParm, Cxdoc_setKioskAlert::PARM_body);
 237
                  elParm.setText(strmError.str().c_str());
 238
                  docAlert.getXML(strXmlCmd);
 239
 240
                  CBrokerWrap broker (m_spXmlCmds);
                  if (!broker.execXml(strXmlCmd.c_str(), strXmlResult, strXmlError))
 241
 242
 243
                       msg.Clear();
 244
                       msg << "CThreadReceiver unable to issue Kiosk alert.";
 245
                       msq.Post(_logAll);
  246
 247
  248
                   continue;
  249
  250
  251
              CXmlElement elTrans;
  252
              CXmlElement elData;
  253
  254
               docXmlTrans.getRoot(&elTrans);
  255
               docXmlCmd.getItem("data", &elData);
  256
  257
               elDala.addChild(&elTrans);
  258
  259
               docXmlCmd.getXML(strXmlCmd);
  260
  261
```

```
// put it to the broker
262
            CBrokerWrap broker(m_spXmlCmds);
263
            if (!hroker.execXml(strXmlCmd.c_str(), strXmlResult, strXmlError))
264
265
                CLogMsgEvent msg (LCEV_GENERIC, SVRTY_WARNING);
266
                msg << "CThreadReceiver unable to store Kiosk transaction file [";
267
                msg << (const char *) cstrFileName << "].";
268
                msg.Post(_logAll);
269
                continue;
270
271
272
            // move to backup directory
273
            strBackupfile = "..\\Backup\\";
274
            strBackupFile += (const char +) cstrFileName;
275
            if (rename(cstrFileName, strBackupFile.c_str()))
276
277
                 CLogMsgEvent msg(LCEV_GENERIC, SVRTY_WARNING);
278
                 msg << "Unable to move file [" << (const char *) cstrFileName << ") to thew
279
         ";
                 msg << "backup directory. errno = [" << errno << "]";</pre>
280
                 msg.Post(_logAll);
281
282
283
284
        setTimer(TIMER_RECEIVE, _theApp.m_pregistry->m_lReceiveFreqMs);
285
296
287 }
288
289 void CThreadReceiver::onTimerMoveFiles()
290 {
        CFileFind ffLocal;
291
        string strWorkDir = _theApp.m_pregistry->m_strKloskDirectory + "Work\\";
string strXferDir = _theApp.m_pregistry->m_strKloskDirectory + "Xfer\\";
292
293
294
        string strSrcFile;
295
296
        string strDestFile;
297
        CString cstrFileName;
298
         // move files out to he xfer directory
299
         string strFileFind = strWorkDir + "+. T";
300
         BOOL fFileFound = ffLocal.FindFile(strFileFind.c_str());
301
        while (fFileFound)
302
303
             fFileFound = ffLocal.FindMextFile();
304
             if ([[Local.IsDirectory()]
305
                 continue:
306
             cstrFileName = ffLocal.GetFileName();
307
             strSrcFile = (LPCSTR) cstrFileName;
308
             strSrcFile.insert(0, strWorkDir);
309
             strDestFile = (LPCSTR) cstrFileName;
 310
             strDestFile.insert(0, strXferDir);
311
312
             remove(strDestfile.c_str());
 313
             rename(strSrcFile.c_str(), strDestFile.c_str());
 314
 315
 316
         // remove files marked as retrieved
 317
         strFileFind = strXferDir + "+.*x";
 318
         fFileFound = ffLocal.FindFile(strFileFind.c_str());
 319
 320
         while (ffilefound)
 321
              fFileFound = ffLocal.FindNextFile();
 322
             if (ffLocal.IsDirectory())
 323
                  continue;
 324
             cotrFileName = ffLocal.GetFilePath();
 325
              remove (cstrFileName);
 326
```

```
C:\Documents and Settings\Billy\My ...\LCKioskServer\threadReceiver.cpp
327
328
        setTimer (TIMER MOVE FILES, INTERVAL TIMER MOVE FILES);
329
330
331
        return;
332 }
333
334 booi CThreadReceiver::deleteBackupFiles()
335 {
        bool fSuccess = true;
336
337
338
        // delete backup file on disk
339
        string strFileName;
        string strSearchName("*.*");
340
        string strBackupDirectory = _theApp.m_pregistry->m_strKioskDirectory;
341
        strBackupDirectory += "Backup\\";
342
        strSearchName.insert(0, strBackupDirectory);
343
344
        // get current time - retentions days
345
346
       SYSTEMTIME stime;
347
        GetLocalTime(&stime);
348
        COleDateTime odtKeep(stime);
        COleDateTimeSpan spanTime(_theApp.m_pregistry->m_lBackupRetentionDays, 0, 0, 0);
349
        odlKeep -= spanTime;
350
351
        // delete all file whose time is less than current time minus retention days
352
        CFileFind ffLocal;
353
        bool fFileFound = ffLocal.FindFile(strSearchName.c_str()) != FALSE;
354
        while (ffileFound)
355
356
            fFileFound = ffbocal.FindNextFile() != FALSE;
357
            if (ffLocal.IsDots())
358
                continue;
359
360
            FILETIME
361
                         ftime:
            ffLocal.GetCreationTime(&ftime);
3.62
            COleDateTime odtFile(ftime);
363
            if (odtFile < odtKeep)
364
365
                CString cstrFileName = ffLocal.GetFilePath();
366
367
                remove(cstrFileName);
368
            }
369
        }
370
371
        // remove old daily transactions from database
        odtKeep.SetDate(stime.wYear, stime.wMonth, stime.wDay);
372
        spanTime.SetDateTimeSpan(_theApp.m_pregistry->m_lTransRetentionDays, 0, 0, 0);
373
        odtKeep -= spanTime;
374
375
376
        CXmlElement elDate;
        Cxdoc deleteKioskTrans xdoc deleteKioskTrans;
377
        xdoc deleteKioskTrans.getItem("parm", &elDate);
378
        elDate.setText((LPCSTR) odtKeep.Format("&Y-%m-%d"));
379
380
        string strXmlCmd;
        string strXmlResult;
381
382
        string strXmlError;
        xdoc deleteKioskTrans.getXMT.(strXmlCmd);
383
        CBrokerWrap broker (m_spXmlCmds);
384
        fSuccess = broker.execXml(strXmlCmd.c_str(), strXmlResult, strXmlError);
385
386
387
         return fSuccess;
3.9.9. }
```

392

391 (

390 bool CThreadReceiver::checkLateKiosks()

docCmd;

Cxdoc_checkLateKiosks

```
393
        CXmlElement elParm;
394
395
        docCmd.getItem("parm", &elParm);
396
        elParm.setText(_theApp.m_pregistry->m_lHoursKioskAbsent);
397
398
        string strXmlCmd;
399
        string strXmlResult;
400
401
        string strXmlError;
402
        docCmd.getXML(strXmlCmd);
403
404
        CBrokerWrap broker (m spXmlCmds);
405
        if (!broker.execXml(strXmlCmd.c_str(), strXmlResult, strXmlError))
406
407
        -{
            CLogMsgEvent msg(LCEV_GENERIC, SVRTY_WARNING);
408
            msg << "CThreadReceiver unable to checkLateKiosks().";
409
410
            msg.Post(_logAll);
411
412
413
        return true;
414 }
415
416 bool CThreadReceiver::buildExports()
417 (
        CExportRiosks ek(m_spXmlCmds);
418
        string strDir = _theApp.m_pregistry->m_strKioskDirectory + "Xfer\\";
419
        ek.setFinalDir(strDir.c_str());
420
        strDir = _theApp.m_pregistry->m_strKioskDirectory + "Work\\Kiosks\\";
421
        ek.setWorkDir(strDir.c_str());
422
        return ek.buildDailyExport();
423
424 }
425
426 bool CThreadReceiver::buildHserExports()
427 (
        string strDix;
428
429
        CExportLCUsers eu(m_spXmlCmds);
430
        strDir = _theApp.m_pregistry->m_strKioskDirectory + "Work\\";
 431
        eu.setFinalDir(strDir.c_str());
432
        strDir += "LCUsers\\";
433
        eu.setWorkDir(strDir.c_str());
434
        eu.setPacketSize(_theApp.m_pregistry->m_lLCUsersPerPacket);
 435
 436
437
         // build the big kahonee
         COleDateTime odt;
 438
        odt.SetDate(1990, 12, 29);
 439
         eu.buildDailyExport((DATE) odt, NULL, true);
 440
 441
         // build the daily
 443
         odt = COleDateTime::GetCurrentTime();
 443
         eu.buildDailyExport((DATE) odt, NULL, false);
 444
 445
 446
         return true;
 447 ]
 448
 449
```

```
c:\Documents and Settings\Billy\My ...\LCKioskClient\wndMonitorISP.cpp
i // wndMonitorISP.cpp : implementation file
2 //
4 #include "stdafx.h"
5 #include "lckioskclient.h"
& #include "wndMonitorISF.h"
7 #include "filenameDelimited.h"
8 Winclude "zipUtil.h"
9 #include "Encryptor.h"
10.
11 #ifdef _DEBUG
12 #define new DEBUG_NEW
13 Bundef THIS_FILE
14 static char THIS_FILE() = __FILE__;
15 #endif
1.5
17 /*
18
      This window acts like the following state machine. A state change results in
19
      either a posted message are a set timer whose event will process that state.
20
21
                                   1
                                        condition
                 new state
22
   23
24 ST_CHECKTIME | ST_CHECKTIME | when it is not time to do anything | st_CONNECTING | when it is time to process
26
27 ST_CONNECTING | ST_RETRY | when the connect fails 28. | ST_EXCHANGE | when the connect success
                | ST_EXCHANGE | when the connect succeeds
| ST_CHECKTIME | when connect fails and retries are exhausted
29
30
31 ST_RETRY | ST_CONNECTING
32
33 ST_EXCHANGE | ST_APPLY | when the data exchange succeeds
34 | ST_RETRY | when the data exchange fails
35 | ST_CHECKTIME | when the data exchange fails and retries are
   _____
     exhausted
               | ST_CHECKTIME | when apply updates succeeds | ST_CHECKTIME | when apply updates fails
37
38
39 */
 40
 41 UINT CWndMonitorISP::m_nRasDialMsg = 0;
 44 // CWndMonitorISP
 45
 46 CWndMonitorISP::CWndMonitorISP()
 47 (
       m_fUseRas = true;
 ďδ
      m_pdialer - NULL:
 43
       m_pdialerRas = NULL;
 50
       m pdialerWinInet = NULL;
 51
       m_fExchangeDone = false;
 52
      .m. fMaintenanceDone = false:
 5.3
 54 }
 55
 56 CWndMonitorISP::~CWndMonitorISP()
 57 (
       if (m_pdialer != NULL)
 58
           delete m_pdialer;
 59
 60 }
 61
 62 BEGIN_MESSAGE_MAP(CWndMonitorISP, UWndMonitor)
      /7((AFX_MSG_MAP(CWndMonitorISP)
 63
       1 MR 15/217
10 MR 11/217
 64
```

```
66
        //) IAFX MSG MAP
        ON_MESSAGE(WMUSER_CONNECTED, onlialConnect)
 67
        ON MESSAGE (WMUSER_CHECKTIME, onTimerCheckTime)
ON MESSAGE (WMUSER_EXCHANGE, onExchange)
 58
 69
        ON MESSAGE (WMUSER APPLY, onApply)
 70
 71
        ON MESSAGE (WMUSER CONNECT, onTryConnect)
        ON_REGISTERED_MESSAGE(m_nRasDialMsg, onRasDialReport)
 73 END MESSAGE MAP()
 74
 75
 77 // CWndMonitorISP message handlers
 79 int CWndMonitorISP::OnCreate(LPCREATESTRUCT lpCreateStruct)
 8.0. (
 61
        if (CWndMonitor::OnCreate(lpCreateStruct) -- -1)
 82
            return -1;
 83
 84
        buildDirectoryStructure();
 85
 86
        if (m filseRas)
 87
 99
           m_pdialerRas = new CDialerRAS(m_registry.m_strPhoneBookEntry.c_str());
           m nRasDialMsg = m pdialerRas->getNotificationMessId();
 89
 90
           m pdialer = m pdialerRas;
 91
        1
 92
        else
 93
 94
            m pdialerWinTnet = new CDialerWinTnet();
 95
            m_pdialer = m_pdialerWinInet:
 9€
        }
 97
 93
       m_pdialer->m_hwndOwner = m_hWnd;
 99
100
        m_ePreviousState = ST_NONE;
101
        setState(ST CHECKTIME);
102
        PostMcsoage (VMUSER_CHECKTIME);
103
        return 0;
104
105
106 void CWndMonitorISP::OnTimer(UINT nIDEvent)
107 {
108
        KillTimer(nIDEvent);
109
110
        switch (mIDEvent)
111
112
        case TIMER CHECKTIME:
113
           onTimerCheckTime(0, 0);
114
           break;
        case TIMER_RETRY:
115
116
           onTimerRetry();
117 .
           break:
118
       default:
119
           break;
120
121 }
122
123 LRESULT CWndMonitorISP::onTimerCheckTime(WPARAM wParam, LPARAM 1Param)
124 (
125
        COleDateTime odtNow = COleDateTime::GetCurrentTime();
126
127
        // check to see if it is end of day. If it is, then do maintenance
        COleDateTimeSpan odtsNow = odtNow - m_registry.m_odtEndOfDay;
12R
129
        int nMinutes = odtsNow.GetTotalMinutes();
130
        if (nminutes > 0 && nminutes < 60)
```

```
3
```

```
132
            if (!m_fMaintenanceDone)
133
134
            [
                deleteOldBackups();
135
                cleanChartersDirectory();
136
                return true;
137
138
139
        ì
140
        else
            m_fMaintenanceDone = false;
141
147
        // check to see if we should do file exchange
143
        odtsNow = odtNow - m_registry.m_odtTimeOfEnchange;
144
        nMinutes = odtsNow.GetTotalMinutes();
145
146
        if (nMinutes >= 0)
147
1.48
        1
149
             // start the exchange
            if (m_registry.m_lConnectRetries)
150
                m_nRetryCount = m_registry.m_lConnectRetries;
151
152
                 m_nRetryCount = RETRY_FOREVER;
153
154
            setState(ST CONNECTING);
155
             PostMessage (WMUSER_CONNECT);
156
157
             // set up the next exchange time
158
            COleDateTimeSpan odtsMinutes(0, 0, m_registry.m_lExchangeFregMins, 0);
159
             m registry.m_odtTimeOfExchange = odtNow + odtsMinutes;
160
161
        }
        else
162
163
         Ĺ
             setState(ST CHECKTIME);
1.64
             SetTimer(TIMER_CHECKTIME, INTERVAL_CHECKTIME, NULL);
165
166
         }
1.67
 168
         return 0;
169 }
170
171 bool CWndMonitorISP::onTimerRetry()
172 (
         if (m nRerryCount > 0)
173
             m nRetryCount --;
 174
 175
         CLogMsgEvent(LCEV_GENERIC, SVRTY_INFO, "Retrying connect").Post(_logAll);
 176
 177
         setState(ST_CONNECTING);
 178
         PostMessage (WMUSER CONNECT);
 179
 180
 181
         return true;
 182 )
 183
 184 LRESULT CWndMonitorISP::onTryConnect(WPARAM wParam, LPARAM 1Param)
 185 {
         if (m_registry.m_lNoDial != 0)
 186
 187
             setState (ST EXCHANGING);
 188
             PostMessage (WMUSER_EXCHANGE);
 189
 190
 191
         else
             m_pdialer->connect();
 192
 193
         return 0:
 194
 195 }
 197 LRESULT CWndMonitorISP::onExchange(WPARAM wParam, LPARAM 1Param)[Claim 1b, 4a, 5a, 5b, 5c, 2]
 196
```

```
7b, 9b, 10a]
198 {
        CLogMsgEvent(LCEV_GENERIC, SVRTY_INFO, "Exchanging files").Post(_logAll);
199
200
201
        bool fSuccess = exchangeFiles();
202
203
        m pdialer->disconnect();
204
205
        if (fSuccess)
205
207
            m_fMaintenanceDone - true;
208
            setState(ST APPLYING);
209
            PostMessage (WMUSER_APPLY);
210
        ł
211
        else
212
        1
213
            if (m_nRetryCount > 0 || m_nRetryCount == RETRY FOREVER)
214
215
                setState(ST_RETRYING);
216
                SetTimer(TIMER_RETRY, m_registry.m_lRetryIntervalSecs * 1000, NULL);
217
            1
218
            else
219
220
                setState(ST CHECKTIME);
221
                SetTimer (TIMER CHECKTIME, INTERVAL CHECKTIME, 0);
222
            }
223
        }
224
225
        return fSuccess ? TRUE : FALSE;
226 }
227
228 LRESULT CWndMonitorISP::onRasDialReport(WPARAM wRasConnState, LPARAM dwError)
229 [
230
        // if doing async Ras, logNotification must be called to recieve WMUSER CONNECTED 🗸
        message
231
        m_pdialerRas->logNotification(wRasConnState, dwError);
232
        return OL;
233 }
234
235 LRESULT CWndMonitorISP::onDialConnect(WPARAM wParam, LPARAM dwError)
236 (
237
      . if (dwError)
238
           m pdialer->disconnect();
239
240
            if (m_nRetryCount > 0 || m_nRetryCount -- RETRY_FOREVER)
241
242
                setState(ST_RETRYING);
                SetTimer(TIMER_RETRY, m_registry.m_lRetryIntervalSecs * 1000, NULL);
243
244
245
            else
246
            1
247
                setState (ST CHECKTIME);
248
                SetTimer (TIMER CHECKTIME, INTERVAL CHECKTIME, 0);
            }
249
250
        }
251
        eise
252
        1
            setState (ST_EXCHANGING);
253
254
            PostMessage (WMUSER_EXCHANGE);
        }
255
256
257
        return 0;
258 }
260 bool CWndMonitorISP:: funcSoxtFileName(string & strl, string & str2)
261 (
```

```
return strl.compare(str2) < 0;
262
263 1
264
265 bool CWndMonitorISP::applyLCUsersUpdates()[Claim 1f,1g]
266 (
        string strSearchName;
267
       .string strFileName;
268
        string strBackupName;
269
        CString cstrZipFileName;
270
        CString cstrXmlFileName;
271
272
        CLogMsgEvent(LCEV_GENERIC, SVRTY_INFO, "Applying LCUsers.").Post(_logAll);
273
274
        bool fSuccess = true;
275
276
277
        try
278
        ţ
            string strProcDir = m_strProcDir + "LCHsers\\";
279
280
             strSearchName = "D_LCUsers*.zip";
281
             strSearchName.insert(0, m_strProcDir);
282
283
             CFileFind ffZips;
284
             ROOL fZipFound = ffZips,FindFile(strSearchName.c_str());
285
             while (fZipFound)
 286
287
                 f2ipFound = ffZips.FindNextFile();
 288
                 cstrZipFileName = ffZips.GetFilePath();
 289
                 clearDirectory(strProcDir.c_str());
 290
                 m_zipper.unzipFile(cstrZipFileName, strProcDir.c_str());
 291
 292
 293
                 strSearchName = strProcDir + "*.xml";
 294
                 CFileFind ffXmls;
 295
                 BOOL fXmlFound = ffXmls.FindFile(strSearchName.c_str());
 296
                 while (fXmlFound)
 297
 298
                      fXmlFound = ffXmls.FindNextFile();
 299
                      cstrXmlFilcName - ffXmls.GetFilcPath();
 300
                     m_spKCData->importLCUsers(_variant_t(cstrXmlFileName));
 301
                      remove(cstrXmlFileName);
 302
 303
                  strBackupName = m_strBackupDir + (LPCSTR) ffZips.GetFileName();
 304
 305
                  rename(cstrZipFileName, strBackupName.c_str());
 306
 307
              }
 308
         catch ( com_error & e)
 309
 310
              CLogMsgEvent msg(LCEV_GENERIC, SVRTY_WARNING);
 311
              msg << "Error during applyLCUsersUpdates(). Error = [";</pre>
 312
              msg.appendError(e);
 313
              msg << "].";
 314
              msg.Post(_logAll);
 315
              fSuccess = false;
 316
 317
          catch (CException * pE)
 318
  319
              CLogMsgEvent msgError(LCEV_GENERIC, SVRTY_WARNING);
  320
              char pszErrorMessage [256];
  321
              pE->GetErrorMessage(pszErrorMessage, 256);
              msgError << "Error during applyLCUsersUpdates(). Error = [" << pszErrorMessagev
  322
  323
              pE->Delete();
  324
              fSuccess = false;
  325
  326
```

```
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       catch (...)
327
           CLogMsgEvent (LCEV_GENERIC, SVRTY_WARNING, "Unknown exception during
328
329
       applyLCUsersUpdates().").Post(_logAll);
           fSuccess = [alse;
330
331
332
333
        return fSuccess;
334
335 }
336
337 bool CWndMonitorISP::applyAppUpdates().
338 {
                        strSearchName;
        string
339
                        strFileName;
        string
340
                        strBackupName;
        string
341
                        cstrFileName;
        CString
342
343
                      msgInfo(LCEV_GENERIC, SVRTY_INFO);
        CLogMsgEvent
 344
 345
        msgInfo << "Applying application updates.";
 346
        msgInfo.Post(_logAll);
 347
 348
        bool fSuccess - true:
 349
 350
 351
        cry
 352
            vector<string> collFileNamesAll;
 353
            vector<string> collFileNamesById;
 354
            355
 35-G
             // find application zip files
            inniniinimminimmunummunummunum
 357
 358
            // build wild card file name for KALL search
 359
             CFileNameKiosk fnKiosk;
 360
             fnKiosk.set("direction", "D");
fnKiosk.set("kiosk_id", "KALL");
 361
 362
             fnKiosk.set("date", "*");
 363
             fnKiosk.setExtension("zip");
 364
             fnKiosk.getFullName(strSearchName);
 365
             strSearchName.insert(0, m_strProcDir);
 366
             // collect all KALL file name and sort them by date
  367
  368
             CfileFind ffLocal;
             BOOL fFileFound = ffLocal.FindFile(strSearchName.c_str());
  369
  370
             while (fFileFound)
  371
  372
                 fFileFound = ffLocal.FindNextFile();
  373
                 cstrFileName = ffLocal.GetFileName();
                 cullFileNamesAll.push_back((const char *) cstrFileName);
  3.7.4
  375
             sort(collFileNamesAll.begin(), collFileNamesAll.end(), _funcSortFileName);
  376
  377
  378
              // build wild card file name for K9999 search
              fnKiosk.set("kiosk_id", m_registry.m_strKloskId.c_str());
  379
  380
              fnKiosk.getFullName(strSearchName);
  381
              strSearchName.insert(0, m_strProcDir);
  362
              // collect all K9999 file names and sort them by date
  ÉBE
              fFileFound = ffLocal.FindFile(strSearchName.c_str());
  384
  385
              while (ffileFound)
   386
              ţ
   387
                  fFileFound = ffLocal:FindNextFile();
   388
                  cstrFileName = ffLocal.GetFileName();
                  collFileNamesById.push_back((const char *) cstrFileName);
   389
   390
              }
   391
```

```
sort(collFileNamesById.begin(), collFileNamesById.end(), _funcSortFileName);
392
3.93
394
           // append K9999 filenames to the end of KALL filenames
395
           collFileNamesAll.insert(collFileNamesAll.end(), collFileNamesById.begin(),
       collFiloNamcsById.end());
396
397
           398
           // apply application zip files
399
           400
           vector<string>::iterator it;
4U1
           for (it = collFileNamesAll.begin(); it != collFileNamesAll.end(); it++)
402
           Į
403
               strFileName = m strProcDir + *it:
404
               if (!m_zipper.unzipFile(strFileName.c_str(), m_registry.m_strAppDirectory.w
       c str(),
405
                       CZipUtil::ZF_OverWrite | CZipUtil::ZF_UseDirectoryNames)}
406
407
                   CLogMsgEvent msgError(LCEV_GENERIC, SVRTY_WARNING);
408
                   msgError << "Unable to apply [" << *it << "]";
409
                   msgError.Post(_logAll);
410
411
               else
412
413
                   msqInfo.clear();
414
                   msgInfo << "Applied update file [" << 'it << "]";</pre>
415
                   msgInfo.Post(_logAll);
416
417
418
               strBackupName = m strBackupDir + *it;
419
               strFileName = m_strProcDir + *it;
420
               if (rename(strFileName.c str(), strBackupName.c str()))
421
422
                   CLogMsgEvent msgError(LCEV_GENERIC, SVRTY_WARNING);
                   msgError << "Unable to move [" << *it << "] to the backup directory
423
       after applying.";
424
                   msgError << " errno - " << errno;
425
                   msgError.Post(_logAll);
4.26
427
           }
428
429
       catch (_com_error & e)
430
431
           CLogMsgEvent msg(LCEV GENERIC, SVRTY WARNING);
           msg << "Error during applyAppUpdates(). Error = !";</pre>
432
          msg.appendError(e);
msg << "}.";</pre>
433
434
435
           mag.Post(_logAll);
           fSuccess = false;
436
437
438
       catch (CException * pE)
439
440
           CLogMsgEvent msgError(LCEV_GENERIC, SVRTY_WARNING);
441
           char pszErrorMessage [256];
           pE->GetErrorMessage(pszErrorMessage, 256);
442
           msgError << "Error during applyAppUpdates(). Error = [" << pszErrorMessage << arepsilon
443
444
           nE->Delete();
445
           fSuccess = false;
446
447
       catch(...)
448
449
           CLogMsgEvent (LCEV GENERIC, SVRTY WARNING, "Unknown exception during
       applyAppUpdates().").Post(_logAll);
450
           fSuccess = false;
451
```

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```
c:\Documents and Settings\Billy\My ...\LCKioskClient\wndMonitorISP.cpp
```

```
453
        return fSuccess;
454 }
455
456 bool CWndMonitorISP::applyDBUpdates()
457 (
458
        string strSearchName;
        string strFileName;
459
460
        string strBackupName;
461
       CString cstrFileName;
462
463
       bool faccess - true;
464
       CLogMsgEvent(LCEV_GENERIC, SVRTY_INFO, "Applying database updates.").Post(_logAll)&
465
466
467
        try
468
        í
469
            CFileNameKiosk fnKiosk;
            fnKiosk.set("direction", "D");
470
            fnKiosk.set("kiosk_id", m_registry.m_strKioskId.c_str());
471
            fnKiosk.set("date", "*");
472
            fnKiosk.setExtension("xml");
473
            fnKiosk.getFullName(strSearchName);
474
475
            strSearchName.insert(0, m_strProcDir);
476
477
            CFileFind ffLocal;
            BOOL fFileFound = ffLocal.FindFile(strSearchName.c_str());
478
            while (fFileFound)
479
480
                fFileFound = ffLocal.FindNextFile();
481
                cstrFileName - ffLocal.GctFileName();
482
                strFileName = (LPCSTR) cstrFileName;
483
484
                strFileName.insert(0, m_strProcDir);
                m_spKCData->importData(_variant_t((LPCSTR) strFileName.c_str()));
485
486
                strBackupName = m strBackupDir + (LPCSTR) cstrFileName;
407
                rename(strFileName.c_str(), strBackupName.c_str());
488
489
490
491
        catch(_com_error & e)
492
            CLogMsgEvent msg(LCEV_GENERIC, SVRTY_WARNING);
493
            msg << "Error during applyDBUpdates(). Error = [";</pre>
494
            msg.appendError(e);
495
496
            msg << "].";
            msg.Post(_logAll);
497
498
            fSuccess = false;
499
500
        catch (CException + pE)
501
            CLogMsgEvent msgError(LCEV_GENERIC, SVRTY_WARNING);
502
503
            char pszErrorMessage [256];
            pE->GetErrorMessage(pszErrorMessage, 256);
504
            msgError << "Error during applyDBUpdates(). Error = {" << pszErrorMessage << ⊌
505
506
            pE->Delete();
507
            fSuccess = false;
508
        }
509
        catch(...)
510
            CLogMsgEvent (LCEV GENERIC, SVRTY_WARNING, "Unknown exception during
511
        applyDBUpdates().").Post(_logAll);
512
            fSuccess = false;
513
514
515
        return true;
```

```
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516 }
517
518 LRESULT CWndMonitorISP::onApply(WPARAM, LPARAM)
519 {
520
        bool fSuccess = true;
521
522
        try
523
524
             HRESULT hr = m spKCData.CreateInstance(_ auidof(KCData));
525
             if (FAILED(hr))
526
527
                 CLogMsgEvent msg(LCEV_GENERIC, SVRTY_WARNING);
528
                 msg << "Unable to instantiate IKCData. Error = [0x" << std::hex << hr << 🗸
        "].";
529
                 msg << " Database updates were not applied.";</pre>
530
                 msg. Post ( logAll); .
531
                 throw E_FAIL;
5-32
             Ì
533
534
            m_spKCData->open();
535
536
            if (!m_zipper.createInstance())
537
                 throw E FAIL;
538
539
            m_strBackupDir = m_registry.m_strLocalDirectory + "Backup\\";
540
            m_str?rocDir - m_registry.m_strLocalDirectory + "Process\\";
541
542
            applyDBUpdates();
543
            applyLCUsersUpdates();
544
            applyAppUpdates();
545
546
            m spKCData->close();
547
548
        catch (_com_error & e)
549
550
            CLogMsgEvent msg(LCEV_GENERIC, SVRTY WARNING);
551
            msg << "Error duringonApply(). Error = (";</pre>
552
            msg.appendError(e);
            msg << "].";
553
554
            msg.Post(_logAll);
555
            fSuccess = false;
55€
557
        catch (HRESULT hrError)
558
        Î
559
            hrError:
560
            fSuccess = false;
561
        3
562
563
        // done, go back into a wait state till next maintenance run
564
        setState (ST CHECKTIME):
565
        SetTimer(TIMER_CHECKTIME, INTERVAL_CHECKTIME, 0);
566
567
        return fSuccess ? TRUE : FALSE;
568 }
569
570 void CWndMonitorISP::clearDirectory(const char * pszDir)
571 {
        string strSearchName = pszDir;
572
573
        strSearchName += "+.*";
574
575
        CFileFind ffLocal;
576
        BOOL fFileFound = ffLocal.FindFile(strSearchName.c_str());
577
        while (fFileFound)
578
        (
579
            fFileFound = ffLocal.FindWextFile();
            if (ffLocal.IsDirectory())
```

```
CString cstrFileName = ffLocal.GetFilePath();
581
            remove(cstrFileName);
582
583
        }
584
505
        return;
586
587 )
589 bool CWndMonitorISP::cleanChartersDirectory()
588
         if (m_registry.m_strChartDir.size() -- 0)
 590 (
 591
             return true;
 592
 593
         FILETIME ft;
         COleDateTime odtYesterday = ColeDateTime::GetCurrentTime();
 594
 595
         ColeDateTimeSpan spanDay(1, 0, 0, 0);
 596
         odtYesterday -= spanDay;
 597
 598
         string strSearchName = m_registry.m_strChartDir + "*.*";
 599
         CString cstrFileName;
 600
 601
  602
          CFileFind ffCharts;
          BOOL fFileFound = ffCharts.FindFile(strSearchName.c_str());
  603
  604
  605
          while (ffilePound)
  606
              fFileFound = ffCharts.FindNextFile();
  607
              if (ffCharts.IsDirectory())
  608
  609
                  continue;
              ffCharts.GetLastWriteTime(&ft);
  610
   611
              odifile - ft;
              if (odtFile < odtYesterday)
   612
   613
                   cstrFileName = ffCharts.GetFilePath();
               {
   614
                   remove(cstrFileName);
   615
   616
               ,
   617
           }
   618
   619
           return true;
   620
   621 }
   623 bool CWndMonitorISP::deleteOldBackups()
    624 {
            bool [Success - true;
    625
            string strBackupDir = m_registry.m_strLocalDirectory + "Backup\\";
    626
    627
             chdrive(m registry m lLocalDrive);
    628
            _chdir(strBackupDir.c_str());
    629
    630
    631
                                 ffBackup;
             CFilcFind
                                 cstrFileName;
     632
             CString
                                  fnKiosk;
     633
             CFileNameKiosk
                                  odtDeleteDate;
     634
             COleDateTime
                                 spanRetentionPeriod;
             // set up the delete date by taking todays date and subtracting backup retention arksigma
     635
             COleDateTimeSpan .
     636
     637
             spanRetentionPeriod.SetDateTimeSpan(m_registry.m_lBackupRetentionDays, 0, 0, 0);
     638
     639
             SYSTEMTIME st;
     640
             odtDeleteDate.SetDate(st.wYear, st.wMonth, st.wDay);
      641
              odtDeleteDate -= spanRetentionPeriod;
      642
      643
              // set up wild card search
      644
      645
```

708

709 710

711

throw E_FAIL;

```
// get files peculiar to this kiosk
712
          713
714
          CFileNameKiosk fnKiosk;
          fnKiosk.set("direction", "D");
715
          fnKiosk.set("kiosk_id", m_registry.m_strKioskId.c_str());
fnKiosk.set("date", "+");
716
717
          fnKiosk.setExtension("zip");
718
719
          string strSearchFileName;
          fnKiosk.getFullName(strSearchFileName);
720
          pszlestOperation = "pullFtpFiles(KicokId.zip):";
721
          pullFtpFiles(pronnFtp, strSearchFileName.c_str(), true);
722
723
          fnKiosk.setExtension("xml");
724
          fnKiosk.getFullName(strSearchFileName);
725
          pszLestOperation = "pullFtpFiles(KioskId_xml):";
7.26
          pullFtpFiles(pconnFtp, strGearchFileName.c str(), true);
727
728
          729
          // get application files targeted for all kiosk
730
          731
          fnKiosk.set("kiosk id", "KALL");
732
          fnKiosk.setExtension("zip");
733
          fnKiusk.getFullName(strSearchFileName);
734
735
          pszLastOperation = "pullFtpFiles(KALL.zip):";
          pullFtpFiles(pconnFtp, strSearchFileName.c_str(), false);
736
737
          738
739
          // get lifeclinic users
          ninnmannamanananananananananana -
740
          CFileNameDelimited fnLCUsers;
741
          fnbCUsers.append("direction", "D");
742
          fnLCUsers.append("file", "LCUSERS");
fnLCUsers.append("date", "*");
743
          fnLCUsers.append("date"
744
          fnLCUsers.setExtension("zip");
745
          fnLCUsers.getFullName(strSearchFileName);
746
          pszLastOperation = "pullFtpFiles(LCUsers):";
747
          pullFtpFiles(pconnFtp, strSearchFileName.c_str(), false);
748
749
          750
          // put daily transaction files to the host
751
          752
          pszhastOperation = "ExportData:";
753
754
          exportData();
755
          // set up wild card search name
756
          fnKiosk.set("direction", "U");
757
          fnKiosk.set("kiosk_id", m_registry.m_strKioskId.c_str());
758
          fnKiosk.set("date", "+");
759
          fnKiosk.setExtension("xml");
760
          fnKiosk.getFullName(strSearchFileName);
761
          pszLastOperation = "pushFtpFiles():";
762
          pushFtpFiles(pconnFtp, strSearchFileName.c_str());
763
          fSuccess = true;
764
765
       catch (CInternetException * pE)
766
767
          char pszErrorMessage [256]:
768
          pE->GetErrorMessage(pszErrorMessage, 256);
769
          msgError << pszLastOperation << " Error = [0x" << std::hex << pE->m_dwError;
770
          magError << "(" << std::dec << pE->m_dwError << ")). ";
771
          msgError << "Error message = [" << pszErrorMessage << "]";
772
773
          pE->Delete();
774
775
       catch (CException * pE)
776
          char pszErrorMessage [256];
777
```

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```

```
778
            pE->GetErrorMessage(pszErrorMessage, 256);
            msgError << pszLastOperation << "Error message = [" << pszErrorMessage << "]";
779
780
            pE->Delete();
781
792
        catch (DWORD dwBrrow)
783
            msgError << pszLastOperation << "Error = [0x" << std::hex << dwError;
784
            msgError << "(" << std::dec << dwError << ")]. ";
785
786
387
        catch {...}
788
            msgError << pszLastOperation << "Error = [Unknown Exception]";</pre>
789
790
791
792
        if (pconnFtp != NULL)
793
794
            pconnFtp->Close();
795
            delete pountFtp;
796
797
798
        if (!fSuccess)
            msgError.Post(_logAll);
799
9.00
801
        return (Success;
802 }
803
804 bool CWndMonitorISP::pullFtpFiles(CFtpConnection * pconnFtp, LPCSTR pszFileSearch,
        bool fMarkHostFile)[Claim 1b, 2a, 4a, 6c, 7b]
805 [
806
                         cstrFileName;
        CString
                         striocalFileName;
807
        string
        string
                         strProcessFileName;
808
                        ffLocal;
809
        CFileFind
810
        string strXferDir = m_registry.m_strLocalDirectory + "Xfer\\";
811
        string strBackupDir = m_registry.m_strLocalDirectory + "Backup\\";
812
        string strProcDir = m_registry.m_strLocalDirectory + "Process\\";
813
814
                         ffHost (pconnFtp);
815
        CFtpFileFind
816
        // get the directory
817
        BOOL ffileFound = ffHost.FindFile(pszFileSearch);
818
819
823
        // now get each file in list
        while (frileround)
821
822
        {
            fFileFound = ffHost.FindNextFile();
823
            cstrFileName = ffHost.GetFileName();
824
925
            // check to see if we've already pulled or applied file, if so, don't pull it
826
            strLocalFileName = strBackupDir + (const char *) cstrFileName;
827
            if (ffLocal.FindFile(strLocalFileName.c_str()))
828
                 continue;
829
830
             strLocalFileName = strProcDir + (const char *) cstrFileName;
831
            if (ffLocal.FindFile(strLocalFileName.c_str()))
832
                 continue;
833
834
             // pull file over ftp
835
             strLocalFileName = strXferDir + (const char *) cstrFileName;
836
             if (!pconnFtp->GetFile(cstrFileName, strLocalFileName.c_str()))
837
                 throw GetLastError();
838
839
             // move the file to the process directory
840
             strProcessFileName = strProcDir + (const char *) cstrFileName;
841
             if (rename(strLocalFileName.c_str(), strProcessFileName.c_str()))
842
```

```
843
                throw (DWORD) errno;
844
845
            15 (fMarkHostFile)
846
                // rename file on host, deletes do not work on cached ftp files
347
848
                string strNewName = (const char *)cstrFileName;
849
                strNewName += 'x';
850
                if (!pconnFtp->Rename(cstrFileName, strNewName.c str()))
851
852
                    DWORD dwError = GetLastError();
853
                    CLogMsgEvent msgError(LCEV GENERIC, SVRTY WARNING);
                    msgError << "Unable to mark host file [";
854
                    msgError << (const char *) cstrFileName << ""]. Error = [Ux";
855
                    msgError << std::hex << dwError << std::dec << " (" << dwError << ") ]v
856
        .";
857
                    msgError.Post(_logAll);
858
959
            }
860
861
862
        return true;
863 }
8€4
865 bool CWndMonitorISP::pushFtpFiles(CFtpConnection * pconnFtp, LFCSTR pszFileSearch)
866 (
867
        CString cstrFileName;
868
       string strLocalFileName;
869
        string strXferDir = m_registry.m_strLocalDirectory + "Xfer\\";
870
        string strBackupDir = m_registry.m_strLocalDirectory + "Backup\\";
871
        string strSearchFileName = strXferDir + pszFileSearch;
872
873
        CFileFind ffLocal;
874
        BOOL fFileFound = ffLocal.FindFile(strSearchFileName.c_str());
875
        while(fFileFound)
876
        ĺ
877
            fFileFound = ffLocal.FindNextFile():
878
            cstrFileName = ffLocal.GetFileName();
879
            // send the file
880
            strLocalFileName = strXferDir + (const char *) cstrFileName;
881
            if (!pconnFtp->PutFile(strLocalFileName.c_str(), cstrFileName))
882
RR3
                inrow GetLastError();
884
885
            // move the file to the backup directory
            string strBackupFileName = strBackupDir + (const char *) cstrFileName;
886
            if (rename(strLocalFileName.c_str(), strBackupFileName.c_str()))
887
888
                CLogMsgEvent msgError(LCEV_GENERIC, SVRTY_WARNING);
889
                magError << "Unable to move file {" << (const char *) cstrFileName << "} "&
9.90
                msgError << "to the backup directory.";
891
                msgError.Post( logAll);
892
893
894
895
        return true;
896 }
897
898 bool CWndMonitorISP::exportData()[Claim 5a]
899 (
900
        bool fSuccess = true; .
901
902
        string strFileName;
903
        SYSTEMTIME tm;
904
        GetLocalTime(&tm);
905
        DATE dateNow;
906
```

```
907
        // build file name
        SystemTimeToVariantTime(&tm, &dateNow);
908
909
        CFileNameKiosk fnKiosk;
910
        fnKiosk.set("direction", "U");
        fnKiosk.set("kiosk_id", m_registry.m_strKioskId.c_str());
inKiosk.set("date", dateNow);
911
912
913
        fnKiosk.setExtension("xml");
914
        fnKiosk.getFullName(strFileName);
915
916
        // get the exported data
917
        IKCDataPtr spKCData;
918
        HRESULT hr = spKCData.CreateInstance(_uuidof(KCData));
919
        if (FAILED(hr))
920
921
            CLogMsgEvent msg(LCEV_GENERIC, SVRTY_WARNING);
            msg << "Unable to instantiate IKCData object. Error = [0x";
922
923
            msg << std::hex << hr << "].";
924
            meg.Post(_logAll);
925
        }
926
927
        try
928
929
            // get the exported data
930
            spKCData->open():
931
             variant_t vData = spKCData->getUnexportedData();
            string strXml = (char *) (_bstr_t) vData;
992
وزو
934
            // encrypt the data
935
            CEncryptor encrypt;
936
            string strXmlEncrypted;
937
            enerypt.Encrypt(strXml.c_str(), NULL, strXmlEncrypted);
938
939
            // write the data out
940
            CFile fileOut;
941
            string strFileOut = m_registry.m_strLocalDirectory + "Xfer\\";
942
            strFileOut += strFileName:
943
            fileOut.Open(strFileOut.c_str(), CFile::modeCreate | CFile::modeWrite);
944
            fileOut.Write(strXmlEncrypted.c_str(), strXmlEncrypted.size());
945
            fileOut.Close();
946
947
            // mark all data exported
948
            spKCData->markDataExported();
949
950
            spHCDsta->close()?
951
952
            fSuccess = true;
953
954
        catch (_com_error & e)
955
        1
956
            CLogMsgEvent msg (LCEV GENERIC, SVRTY WARNING);
957
            msg.setError(e);
958
            msq.Post(logAll);
959
            fSuccess = false;
960
961
        catch(CFileException * pEx)
962
963
            char szError (256);
964
            pEx->GetErrorMessage(szError, 256);
            CLogMsgEvent msg(LCEV_GENERIC, SVRTY_WARNING);
965
966
            msg << "CFile threw exception. Error = [" << szError << "]. ";
            msg << "Cause = [" << pEx->m_cause << "].";</pre>
967
968
            msq.Post(logAll);
969
            pEx->Delete();
970
        }
971
        catch (bool FError)
972
```

```
c:\Documents and Settings\Billy\My ...\LCKioskClient\wndMonitorISP.cpp
    973
    974
    975
            catch(...)
   976
                                                                                              16
   977
               CLogMagEvent mag (LCEV_GENERIC, SVRTY_WARNING);
   978
               mag << "Unknown exception type caught in CWndMonitorISP::exportData().";
   979
   980
               fSuccess = false;
   981
  992
  983
          return fSuccessi.
  984 }
  985
  986 void CWndMonitorISP::buildDirectoryStructure()
 987 (
         string strBaseDir = m_registry.m_strLocalDirectory;
 989
         string strDir = strBaseDir + "Xfer\\";
 990
         mkdir(strDir.c_str());
 991
         strDir = strBaseDir + "Backup\\";
 992
        mkdir(strDir.c_str());
 993
        strDir = strBaseDir + "Process\\";
994
        mkdir(strDir.c_str());
995.
        strDir += "LCusers\\";
996
        mkdir(strDir.c_str());
997
998 j
999
```

```
c:\Documents and Settings\Billy\My ...\LCBroker\xc applyKioskTrans.cpp
  1 #include "xc_OtherCommands.h"
  2 #include "rs_kinsk_h"
  5 CMC_IMPLEMENT_FACTURY (Cxc_applyRioskTrans)
  7 bool Cxc_applyKioskTrans::execCommand()
  8 (
  9
        bool fSuccess = true;
 10
        bool fTransStarted = false;
 11
        m_pconn = NULL;
 12
        m lAuditId = 0;
 13
 14
        try
 15
        ł
 15
            Cis_kiosk_daily_trans
                                     isTrans;
 17
 18
            string strKioskId;
 19
            string strRecId;
 20
 21
            getParm("kiosk_id", strKioskId);
 22
            getParm("rec_id", strRecId);
 23
            long lKioskId = atol(strKioskId.c_str());
 24
 25
            long lRecId = atol(strRecId.c_str());
 26
 27
            if (lKioskId == 0)
 28
            į
 29
                m_embast << "\"kiosk_id\" is a required parameter.";</pre>
 30
                throw fSuccess = false;
 31
            }
 32
3.3
            if (lRecId == 0)
34
            ĺ
35
                m_emLast << "\"rec_id\" is a required parameter.";</pre>
3€
                throw fSuccess = false;
37
38
39
           m_pconn = m_pcoClient->getConnection();
40
           if (m_pconn == NULL)
41
            į
42
                m_embast.setError(m_proClient->getbastError());
43
               throw fSuccess = false;
44
           }
45
46
           rsTrans.setActiveCommand("cmdGetTrans");
          rsTrans.setParameter("klosk_id", variant_t(lKioskId));
rsTrans.setParameter("rec_id", variant_t(lRecId));
47
48
49
5ũ
           if (!m_pconn->execute(rsTrans))
51
           {
52
               m_emLast.setError(m_pconn->getLastError());
53
               throw fSuccess = false;
54
55
56
           if (rsTrans.isEmpty())
57
58
               m_emLast << "There are no transactions for klosk_id [" << lKioskId << "], &
       rec_id [";
59
               m_emLast << 1Reald << "].";</pre>
60
               throw fSuccess = false;
61
           ţ
62
63
           // get the transactions in xml format
64
           string strXml;
```

rsTrans.getField("data", strXml);

```
c:\Documents and Settings\Billy\My ...\LCBroker\xc applyKioskTrans.cpp
              66
                         CXmlDocument xdocTrans(strXml.c_str());
             67
                         if (LydocTrans_isBeady())
             58
             69
                             string strParseError;
             70
                             %docTrans.gctParscrError(strParscError);
             71
                            MGGGTTans.getrarscriptror(strearscript);
m_emLast << "Unable to parse XML transactions. kiosk id = [" << lkioskId;
m_emLast << "], rec_id [" << lkecId << "]. Error = [" << strparseError << v
             72
                    "],";
            73
            74
            75
            76
                       CXmlElement elTable;
           77
           78
                       fTransStarted = m_pconn->beginTrans();
           79
           80
                      m_lAuditId = getAuditId();
           81
          82
                      // apply alternate id
          83
                      if (xdocTrans.getItem("kc_id_map", &elTable))
          84
          85
                          xdocTrans.pushCurrent(selTable);
          86
                         Crs_kc_id_map rsAld;
         87
                         rsAld.setActiveCommand("applyTrans");
         88
                         fSuccess = applyTransactions(xdocTrans, rsAId);
         89
                         xdocTrans.popCurrent();
         90
                     į
         91
        92
                    // apply klosk users
        93
                    if (fSuccess & xdocTrans.getItem("kc_user", &elTable))
        94
        95
                        xdocTrans.pushCurrent(&elTable);
        96
                        Crs_kc_user_rsUser;
       97
                       rsuser_setActiveCommand("applyTrans");
       98
                       fSuccess = applyTransactions(xdocTrans, rsUser);
       99
      100
                   1
      101
     102
                  // apply blood pressures
     103
                  If (fSuccess & xdocTrans.getItem("kc_blood_pressure", &elTable))
     104
     105
                      xdocTrans.pushCurrent(&elTable);
    106
                     Crs_kc_blood_pressure rsBP;
    107
                     rsBP.setActiveCommand("applyTrans");
    108
                     fSuccess = applyTransactions(xdocTrans, rsBP);
    109
                     xdocTrans.popCurrent();
    119
   ili
   112
                // apply weights
   113
                if (fSuccess && xdocTrans.qetItem("kc_weight", &elTable))
   114
   115
                    xdocTrans.pushCurrent(&elTable);
  116
                    Crs_kc_weight rsWeights;
  117
                   rsWeights.setActiveCommand("applyTrans");
  118
                   fGurcess = applyTransactions (xdocTrans, rsWeights);
  119
                   xdocTrans.popCurrent();
 120
 121
 122
              fTransStarted = false;
 123
 124
              string strStatus;
125
             string strReason;
126
             if (fSuccess)
127
128
                 m_pconn->commitTrans();
129
                 strStatus = "p";
130
```

```
c:\Documents and Settings\Billy\My ...\LCBroker\xc applyKioskTrans.cpp
  131
                else
  132
                 {
  133
                     m_pconn->rollbackTrans();
  134
                     strStatus = 'E';
  135
                     m_emLast.getError(strReason);
  136
  137
  138
                // mark transaction processed
  139
                rsTrans.setActiveCommand("cmdUptKioskTrans");
               rsTrans.setRetreeOmmant( competition ( );
rsTrans.setParameter("kiosk id", variant t(lKioskId));
rsTrans.setParameter("rec_id", variant t(lRecId));
rsTrans.setParameter("status", variant t(strStatus.c_str()));
rsTrans.setParameter("reason", variant t(strReason.c_str()));
rsTrans.setParameter("audit id", variant t(1L));
  140
  141
  142
 143
 144
 145
                if (im_pconn->execute(rsTrans))
 146
 147
                     m_emLast.setError(m_pconn->getLastError());
 146
                     throw fSuccess = faise;
 149
 150
 151
           catch (_com_error x e)
 152
 153
               m_emLast.setError(e);
 154
               fSuccess = false;
 155
          }
 156
          catch (bool fBool)
 157
158
               fBool;
 159
               fSuccess - false;
 160
 161
          catch(...)
162
 163
               m_emLast.setError("Unkown exception raised. [Command:applyKioskTrans]");
 164
               fSuccess = false;
165
          }
166
167
          if (fTransStarted)
168
169
               if (fSuccess)
170
                   m_pconn->commitTrans();
171
               e) na
172
                   m_pconn->tollbackTrans();
173
          }
174
175
          return fSuccess;
176 }
177
178 bool Cxc_applyKioskTrans::applyTransactions(CXmlDocument &xdocData, CSdoRecordset &
          rsCmdRecSet)
179 (
180
          bool fSuccess = false;
181
          string strTag;
182
         m_emLast.clear();
183
184
         try
185
          1
186
              //Active command is expected to be set prior calling.
187
168
              //get the Sdo command pointer
189
              CSdoCommand * pcmdSdo = rsCmdRecSet.getActiveCommand();
190
191
              //get the table element from the stack
192
              CXmltlement el Table;
193
              xdocData.getCurrent(&elTable);
194
              string strAttrValue;
195
              elTable.getAttribute("t", strAttrValue);
```

```
if (strAttrValue(0) != 't')
196
197
            {
198
                m_emLast.clear();
199
                m emLast << "Expecting XML table element to have attribute t=\"t\".";
2.00
                throw fSuccess = false;
201
202
203
            CXmlElement elRow;
            bool fRows = elTable.getFirst(&elRow); //get the "row" Element
204
205
206
            while (fRows)
                                                      //process for all "row" Elements
207
                //get "row"tag
208
209
                elRow.getTag(strTag);
210
                if (stricmp(strTag.c_str(), "row") != 0)
211
212
                    m emLast.clear();
213
                    m embast << "Expecting KML element \"row\". Found \"" << strTag << "\"r
        .";
214
                    fSuccess = false;
215
                    break:
216
217
216
                //Set all the parameters
                xdocData.pushCurrent(&elRow);
219
220 -
221
                pcmdSdo->clearParms();
222
                if (pcmdSdo->setParms(xdocData) == false)
223
224
                    string strError;
225
                    pcmdSdo->getLastError(strError);
                    m_emLast.setError(strError.c_str());
226
227
                    fSuccess = false;
228
                    break:
229
230
                if (m_lAuditId)
231
232
                    pcmdSdo->setParm("audit_id", _variant_t(m_lAuditId));
233
234
                xdocData.popCurrent();
235
236
                // update the table
237
                if (!(fSuccess = m pconn->execute(rsCmdRecSet)))
238
                    m emLast.setError(m pconn->getLastError());
239
240
                    fSuccess = false;
241
                    break;
242
243.
                //fetch next row to update.
244
245
                fRows = elTable.getNext($elRow);
246
247
248
            fSuccess = true;
249
        catch(_com_error & e)
250
254
            m emLast.setError(e);
252
            fSuccess = false;
253
254
255
        catch (bool fBool)
256
257
            fBool;
            fSuccess = false;
258
259
260
        catch(...)
```

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